

## ATTACHMENT D

### U.S. ARMY CORPS OF ENGINEERS UNIFORM COMPONENT SPECIFICATIONS

#### **C203 Band, Hat, Duty, Embossed**

**Sample Size:** All dimensions based on size 7 1/8

#### **GENERAL DESCRIPTION**

Embossed hat band, deep floral design tooling. Dies shall be Government-Furnished Property.

**TYPE ITEMS:** \*--Male and Female

#### **CLASSIFICATION**

\* All Hats

#### **SALIENT CHARACTERISTICS**

##### **Components**

##### **Type – Class**

- \* **Basic Material:** The material shall be grade A 9 Oz. top grain cowhide leather dyed with black oil base dye. High gloss finish shall be pigmented acrylic with top coat of nitrocellulose. Two brass gilt rings shall be attached to leather tabs. 24" x 1/4" black leather thong for hand wrapping.
- \* **Label:** See general reference and requirements sheet.

##### **General Instructions**

- \* **Construction:** The edges shall be edged with a #3 edger or equal to give rounded effect on lineal edges. All edges shall be burnished with a canvas cloth using a hard burnishing wax and shall be 1 1/8" wide and 1/8" thick.

**Sizes and Measurements:** 6 5/8" - 8" in 1/8" increments

## ATTACHMENT D

### C208 Belt, Black 9 oz. Leather, Duty

**Sample Size:** All dimensions are based on a size 36

#### GENERAL DESCRIPTION

Embossed belt, deep floral design tooling. Solid brass, high polished buckle.

**TYPE ITEMS:** \*-Male and Female      Type I—Male      Type II—Female

**CLASSIFICATION**      COE # (M/F)

\*      **All Belts**      \*  
C208

#### SALIENT CHARACTERISTICS

##### Components

Type-Class

- \*      **Basic Material:** The material shall be leather, top grain, grade cowhide, 9 oz. Two snaps, Rau manufacturer, No. 8020-F9, 8029-F-10, 8031-F10, 8042-F10. Buckle No. 2577, solid brass polished gilt finish. Waterbury manufacturer, 11/2". Black oil base dye. Finish shall be pigmented acrylic with top coat of nitrocellulose.
- \*      **Label:** See general reference and requirement sheet.

##### Detail Design Characteristics

- \*      **Construction:** The edges shall be edged with a #3 edger or equal to give rounded effect on lineal edges. Belt must have finished design end. All edges burnished with a canvas cloth using a hard burnishing wax. To be 1½" wide and 1/8" thick.

##### Sizes and Measurements

##### Finished Dimensions

**Sizes:** Available in even sizes only 24-60.

## ATTACHMENT D

### C260 Cap, Green Gore-Tex and Fur, Trooper Style

Specifications are identical for the following other components:

### N261 Cap, Green Gore-Tex and Fur, Trooper Style

Sample Size: Large

#### GENERAL DESCRIPTION

"Trooper Style" Borg Pile fur trimmed hat.

#### CLASSIFICATION

*	<b>All Caps</b>	*
	COE Cap	C260
	NPS Cap	N261

#### SALIENT CHARACTERISTICS

##### Components

- \* **Basic Material:** The material shall be Forest Green two-ply Taslan nylon Gore-Tex fabric.
- \* **Strap:** The strap shall be made of same material as crown, 5/8" wide, metal snap slide and metal clip at end of strap.
- \* **Fur:** Dark brown, first quality mouton fur.
- \* **Lining:** Black zig-zag quilted pattern sateen acetate or equal with insulating layer.
- \* **Sweatband:** Same material as lining with an inner stiffening of quality crinoline or equal sewn to the cap.
- \* **Construction:** The crown shall be constructed of four pieces extending laterally from front to back, each of the center two pieces to be approximately 3" wide, finished at the crown, tapering to approximately 2 1/2" inches at the back. Each of the side pieces shall be approximately 3 1/2" at the maximum height when assembled. The same type of material shall be used as backing for the ear and neck flaps, as well as the front visor. The ear and neck flaps shall be of single piece construction. Note: Dimensions may vary within normal commercial tolerances in proportion to the size of the cap.
- \* **Visor:** The visor (peak) shall be approximately 7" wide at the base of the crown, the visor to be cut on a radius so that an approximate height of 3" is achieved after being assembled to the crown, folded and fastened. A heavy duty snap fastener shall be provided to secure the visor to the crown of the cap so that the visor can be worn in an elevated position.
- \* **Labels:** See references and requirements section.
- \* **Sizes:** Small (6 3/4- 6 7/8), Medium (7 - 7 1/8), Large (7 1/4 - 7 3/8), X-Large (7 1/2 - 7 5/8), XX-Large (7 3/4), and XXX-Large (8-8 1/8)

## ATTACHMENT D

### C265 Cap, Ski, Dark Green Acrylic Knit

Specifications are identical for the following other components:

F264 Cap, Ski, Dark Brown Wool Knit  
N266 Cap, Ski, Dark Green Acrylic Knit  
C267 Cap, Ski, Dark Green Wool Knit  
N268 Cap, Ski, Dark Green Wool Knit

Sample Size: One Size

### GENERAL DESCRIPTION

The knitted caps shall be Wigwam No. 1016 (wool) or 1017 (acrylic) style cap or equal. Versions with non-allergic wool and wool with acrylic or other appropriate linings shall be submitted for approval by the Agency COTR.

CLASSIFICATION		FWS #	
*	All Caps	*	
A	FWS Wool Knit	F264	
		COE #	NPS #
*	All Caps	*	*
B	C/N Acrylic Knit	C265	N266
C	C/N Wool Knit	C267	N268

### SALIENT CHARACTERISTICS

#### Components

- \*-A **Basic Material:** The material shall be 100% worsted wool. The color shall be dark brown.
- \*-B **Basic Material:** The material shall be 100% acrylic. The color shall be dark Forest Green.
- \*-C **Basic Material:** The material shall be 100% worsted wool. The color shall be dark Forest Green.
- \* **Knit:** The cap shall be constructed from a medium circular rib knit except for the crown which shall be a finer rib knit. The knitting shall be continuous between body and crown.
- \* **Construction:** The stocking cap shall be knitted on a circular knit machine. The cap shall be formed by folding an appropriate length body of circular knit back on itself and cutting the crowns into four quarters. The four dart edges on each side shall be joined with the stitch line continued across to the opposite four dart edges and repeating again for closing the other two darts. The crown shall be sewn with stitch type 504.
- \* **Dimensions:** In a relaxed state the cap shall measure approximately 12" high with a half width of approximately 8".
- \* **Labels:** See references and requirements section.
- \* **Sizes:** One size fits all.

## ATTACHMENT D

### C267 Cap, Ski, Dark Green Wool Knit

Specifications are identical for the following other components:

F264 Cap, Ski, Dark Brown Wool Knit

C265 Cap, Ski, Dark Green Acrylic Knit

N266 Cap, Ski, Dark Green Acrylic Knit

N268 Cap, Ski, Dark Green Wool Knit

Sample Size: One Size

### GENERAL DESCRIPTION

The knitted caps shall be Wigwam No. 1016 (wool) or 1017 (acrylic) style cap or equal. Versions with non-allergic wool and wool with acrylic or other appropriate linings shall be submitted for approval by the Agency COTR.

CLASSIFICATION		FWS #	
*	All Caps	*	
A	FWS Wool Knit	F264	
		COE #	NPS #
*	All Caps	*	*
B	C/N Acrylic Knit	C265	N266
C	C/N Wool Knit	C267	N268

### SALIENT CHARACTERISTICS

#### Components

- \*-A **Basic Material:** The material shall be 100% worsted wool. The color shall be dark brown.
- \*-B **Basic Material:** The material shall be 100% acrylic. The color shall be dark Forest Green.
- \*-C **Basic Material:** The material shall be 100% worsted wool. The color shall be dark Forest Green.
- \* **Knit:** The cap shall be constructed from a medium circular rib knit except for the crown which shall be a finer rib knit. The knitting shall be continuous between body and crown.
- \* **Construction:** The stocking cap shall be knitted on a circular knit machine. The cap shall be formed by folding an appropriate length body of circular knit back on itself and cutting the crowns into four quarters. The four dart edges on each side shall be joined with the stitch line continued across to the opposite four dart edges and repeating again for closing the other two darts. The crown shall be sewn with stitch type 504.
- \* **Dimensions:** In a relaxed state the cap shall measure 12" high with a half width of 8".
- \* **Labels:** See references and requirements section.
- \* **Sizes:** One size fits all.

## ATTACHMENT D

### **C270 Castle, Hat**

**Sample Size:** One size.

### **GENERAL DESCRIPTION**

Corps of Engineers castle hat.

**TYPE ITEMS:** \*--Male and Female

### **CLASSIFICATION**

\* All Hats

### **SALIENT CHARACTERISTICS**

#### **Components**

Type-Class

\* **Basic Material:** The material shall be gold plated brass.

#### **General Instructions**

\* **Construction:** 1 1/8" wide, 3/4" high. Double post, clutch back.

## ATTACHMENT D

### C275 Cover, Hat, Translucent, Vinyl

Specifications are identical for the following other component:

### N276 Cover, Hat, Translucent, Vinyl

**Sample Size:** All dimensions are based on a size L.

#### GENERAL DESCRIPTION

MP Model 40, Smokey-the Bear, Campaign or Montana Peak style rain hat cover

**TYPE ITEMS:** \*All Hats

CLASSIFICATION	COE# (M/F)	NPS# (M/F)
* All Hats	* C275	* N276

#### SALIENT CHARACTERISTICS

##### Components

Type-Class

- \* **Basic Material:** The covers shall be made of clear Goodyear vinyl plastic.
- \* **Label:** See general reference and requirement sheet.

##### Detail Design Characteristics

- \* **Construction:** The plastic shall be waterproof, formed to fit campaign style hat.

##### Sizes and Measurements

##### Finished Dimensions

- \* **Sizes:**  
Small- for sizes 6-1/2, 6- 5/8 and 6-3/4  
Medium-for sizes 6-7/8, 7, 7-1/8  
Large-for sizes 7-1/4, 7-3/8  
Extra Large-for sizes 7-1/2 and larger

## ATTACHMENT D

### C281 Coveralls, Green 12 Oz. Cotton Duck, Insulated

Specifications are identical for the following other components:

**F277 Coveralls, Brown 12 Oz. Cotton Duck, Insulated**

**N282 Coveralls, Green 12 Oz. Cotton Duck, Insulated**

**Sample Size:** All dimensions are based on size 42R

### GENERAL DESCRIPTION

Walls Carhart coveralls or equal, fully lined and insulated coveralls are designed to be worn as outer garments over regular clothing. The coveralls feature front zipper closures with four front pockets and three back pockets. Outseams have thigh-high zipper closures.

**TYPE ITEMS:** \*--Male and Female

CLASSIFICATION	FWS #	NPS #	COE #
* <b>All Coveralls</b>	*	*	*
A Brown	F277	-	-
B Green		N282	C281

### SALIENT CHARACTERISTICS

#### Components

- \*-A **Basic Material:** The shell material shall be brown 12 ounces per square yard, vat-dyed 100 percent cotton duck. The lining shall be 100% nylon taffeta with 100% polyester 4 ounces per square yard fill. The lining fabric yarn denier shall be 70 warp and 70 fill. Construction shall be 104 warp and 68 fill threads.
- \*-B **Basic Material:** The shell material shall be Forest Green 12 ounces per square yard, vat-dyed 100 percent cotton duck with Forest Green color. The lining shall be 100% nylon taffeta with 100% polyester 4 ounces per square yard fill. The lining fabric yarn denier shall be 70 warp and 70 fill. Construction shall be 104 warp and 68 filling threads.
- \* **Front Zipper:** The front closure shall be two-way, size 5 brass zipper with single pull long tab sliders positioned mouth-to-mouth. There shall be one snap centered on the waistband, ½" from the front edge and one snap 1" below neckline and 1" from the front edge. A 1 1/8" wide storm flap shall cover the zipper.
- \* **Leg Zipper:** Coveralls shall have a full-length two way, size 5 brass zipper inserted in sideseam of each leg from bottom of pant cuff to waistband. Zipper shall be same as front zipper except for length. A 1 ¼" storm flap shall cover zipper and be snapped with four snaps, one at bottom of pant leg and three equally spaced between leg bottom and waistband.
- \* **Lining:** The insulated lining shall be attached to outer shell with 8-12 stitches per inch. All seams shall be inverted. Lining shall be inserted in bodice portion and stitched directly to shell in pants portion.
- \* **Label:** See general reference and requirements sheet.
- \* **Thread:** Oncore size 50 polyester core/cotton wrap to match basic materials.



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### General Instructions

- \* **Cutting:** N/A.
- \* **Stitching:** Double or triple needle construction, ¼" gauge, on all seams except label and collar. Five-thread overedge chain stitch with safety stitch, 3/8" gauge. Zipper tapes shall be attached with two rows of stitching.

### Detail Design Characteristics

- \* **Front:** The waistband and waistband lining shall be folderset, 1 3/8" to 1 5/8" wide, one-piece construction. Waistband shall be basic material and waistband lining shall be self-goods fabric. Waistband and waistband lining shall be topstitched with double stitching 3/16" to 1/4" gauge, at top and bottom of waistband with outer rows 1/16" from edges.
- \* **Pockets:** There shall be four front pockets consisting of two breast patch pockets with size 3 brass zipper closures which shall be 5 ½" to 7" long. Breast pockets shall be 7" wide, 4" on front side and 7" on back side. Breast pockets to be a minimum of 5 ½" wide by 5 ¾" deep. Two front quartertop swing pockets with 7 ½" opening by 5" deep from bottom edge of opening. Pocketing shall be 80% polyester - 20% rayon greige, 3 ounces weight. Two hip pockets, minimum 7", folderset, shall be attached with 7-9 stitches per inch.
- \* **Collar:** The fabric shall be same color as coverall or dark brown corduroy for the top collar with basic material as undercollar. The collar shall be stitched, turned and topstitched 1/8" to ¼" gauge. The collar shall be approximately 4 ½" high at center back and shall be approximately 19" wide with approximately 4" collar points.
- \* **Sleeves:** The sleeves shall be two-piece, set-in construction hemmed with inside knit wristlet. The pencil pocket on the left sleeve is optional.
- \* **Bi-Swing Back:** There shall be a two-piece back with a 1" wide pleat.
- \*-A **Patch:** The large U.S. Fish and Wildlife Service patch (4 ½" x 3 ½") shall be sewn on the left sleeve, centered and 1 ¾" to 2" below the shoulder seam depending on the size of the garment..
- \*-B **Patch:** An arrowhead shoulder patch shall be sewn securely in the center of the left sleeve with the top edge 1 ¾" to 2" below the shoulder seam depending on the garment size. The patch shall be sewn with inconspicuous stitching using a brown thread closely matching the emblem background color.

### Sizes and Measurements

- \* **Sizes:**
  - Short 36-48
  - Regular 32-54
  - Long 38-52
  - X Long 40-48

## ATTACHMENT D

### C284 Coveralls, Unisex, Green 8 Oz. 65/35 P/C Chetopa Twill, Unlined

**Specifications are identical for the following other component:**

**Sample Size:** All dimensions based on size 42R

#### GENERAL DESCRIPTION

Coverall with zipper front, raglan sleeve, collar and cuffs. This garment has one zipper chest pocket, patch hip pockets, two swing front pockets and one ruler pocket.

**TYPE ITEMS:** \*--Male and Female

#### CLASSIFICATION

\* All Coveralls

#### SALIENT CHARACTERISTICS

##### Components

Type-Class

- \* **Basic Material:** The material shall be body fabric of 65% polyester, 35% vat-dyed cotton, 8 ounce Chetopa twill. Front pockets 50% polyester, 50% cotton, 2.97 weight pre-shrunk 1 percent. Forest Green color.
- \* **Zipper:** The zipper shall be #5 two-way brass zipper. One 14 ligne stainless steel gripper at top of zipper (concealed); one 14 ligne stainless steel gripper at neck (concealed ); one 14 ligne stainless steel gripper on each cuff (concealed).
- \* **Elastic:** 1 3/8" wide Spandex covered by 100% polyester, non-roll.
- \* **Lining:** N/A.
- \* **Thread:** All seams sewn with cotton covered polyester thread.
- \* **Label:** See general reference and requirements sheet.

##### General Instructions

- \* **Cutting:** N/A.
- \* **Stitching:** Shoulder, raglan sleeve, sideseams, pant inseams, outseams and fronts wing pockets sewn with 3/8" gauge safety stitch with overedge stitching. Jacket and pant sections joined with tandem needle chainstitch. Double sewn front crotch seam and seat seam.

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### Detail Design Characteristics

- \* **Front:** Front closed with #5 two-way brass zipper. One 14 ligne stainless steel gripper at top of zipper (concealed); one 14 ligne stainless steel gripper at neck (concealed); one 14 ligne stainless steel gripper on each cuff (concealed).
- \* **Front Pockets:** Sling pockets; separate facing; bartacked at bottom of opening.
- \* **Hip Pockets:** Two patch pockets shall be body fabric, 7" wide by 7" deep, set with two needle lockstitch. Pocket bottom corners to be mitered.
- \* **Breast Pockets:** Right breast zipper pocket of body fabric. Left breast pocket open at top. Both pockets 6" by 6 1/4", set with single needle lockstitch.
- \* **Ruler Pocket:** One ruler pocket of body fabric. Point concealed in bottom seam of right hip pocket. Set with single needle lockstitch.
- \* **Waistband:** Outside band of body fabric finishes 1 5/8" wide, 4 by 1 3/8" elastic strips inside band on each side from sideseams toward center back.
- \* **Sleeves:** Long sleeves; outer cuff topstitched on sleeve; two piece inside cuff facing with concealed gripper closure.
- \* **Back:** Two piece, felled from shoulder to waist.
- \* **Hem:** 5/8" double fold; single needle lockstitch.
- \* **Patch:** The U.S. Corps of Engineers ensign shoulder patch shall be sewn securely in the center of the left sleeve with the top edge 8 1/2" below the shoulder seam. The patch shall be sewn with inconspicuous stitching using white thread to match the emblem background color.

### Sizes and Measurements

#### Sizes:

Short	36-46
Regular	28-58
Long	38-54
Xlong	40-50

## ATTACHMENT D

**C298 Hat, Tan Felt, Winter**

**Specifications are identical for the following other components:**

**N259 Hat, Tan Felt, Winter**

**C300 Hat, Straw, Summer**

**N301 Hat, Straw, Summer**

**Sample Size:** All dimensions are based on C298, 300 - 7 1/8 LO; N259, N301 - 7 1/2 R

### GENERAL DESCRIPTION

Montana Peak, four-dent, traditional National Park Service style. Straw hats are Stratton #44 DB, 5 to 5 1/2 M.M. Felt hat is Stratton #44 winter dress hat.

**TYPE ITEMS:** \*--All Hats      Type I—Male      Type II—Female

**CLASSIFICATION**      NPS # (M/F)      COE # (M/F)

*	All Hats	*	*
A	Straw Hats	N301	C300
B	Felt Hats	N259	C298

### SALIENT CHARACTERISTICS

#### Components

- \*-A      **Basic Material:** The material shall be bedford hemp braid, tight weave and vented Milar braid Belgium belly tan..
- \*-B      **Basic Material:** The material shall be nutria quality Belgium Belly Tan Felt. Felt dye shall show a minimum of discoloration in 100 hours Fade-O-Meter Test.
- \*      **Crown:** Crown shall be Montana Peak with 3 or 4 crown vents on each side, pyramid configuration.
- \*-B      **Side:** One brim eyelet on each side for chin strap. Three side vent holes.
- \*-A      **Brim:** Double brim and brim width shall be 3 1/8" wide standard.
- \*-B      **Brim:** Brim width shall be 3 1/8" wide standard.
- \*      **Sweatband:** Sweat band shall be leather, sweat/oil silk shield. Plastic film behind sweatband.
- \*      **Chinstrap:** One brim eyelet on each side for chin strap.
- \*      **Label:** See general references and requirements sheet.

#### General Instructions

#### Sizes and Measurements

- \*      **Sizes:**      Regular Oval: 6 3/8 - 7 7/8, in 1/8" increments  
                    Long Oval: 6 1/2 - 7 7/8, in 1/8" increments  
                    Extra Long Oval: 6 1/2 - 7 7/8, in 1/8" increments

## ATTACHMENT D

**C300 Hat, Straw, Summer**

**Specifications are identical for the following other components:**

**N259 Hat, Tan Felt, Winter**

**C298 Hat, Tan Felt, Winter**

**N301 Hat, Straw, Summer**

**Sample Size:** All dimensions are based on C298, 300 - 7 1/8 LO; N259, N301 - 7 1/2 R

### GENERAL DESCRIPTION

Montana Peak, four-dent, traditional National Park Service style. Straw hats are Stratton #44 DB, 5 to 5 1/2 M.M. Felt hat is Stratton #44 winter dress hat.

**TYPE ITEMS:** \*--All Hats      Type I—Male      Type II—Female

**CLASSIFICATION**      NPS # (M/F)      COE # (M/F)

*	All Hats	*	*
A	Straw Hats	N301	C300
B	Felt Hats	N259	C298

### SALIENT CHARACTERISTICS

#### Components

- \*-A      **Basic Material:** The material shall be bedford hemp braid, tight weave and vented Milar braid Belgium belly tan..
- \*-B      **Basic Material:** The material shall be nutria quality Belgium Belly Tan Felt. Felt dye shall show a minimum of discoloration in 100 hours Fade-O-Meter Test.
- \*      **Crown:** Crown shall be Montana Peak with 3 or 4 crown vents on each side, pyramid configuration.
- \*-B      **Side:** One brim eyelet on each side for chin strap. Three side vent holes.
- \*-A      **Brim:** Double brim and brim width shall be 3 1/8" wide standard.
- \*-B      **Brim:** Brim width shall be 3 1/8" wide standard.
- \*      **Sweatband:** Sweat band shall be leather, sweat/oil silk shield. Plastic film behind sweatband.
- \*      **Chinstrap:** One brim eyelet on each side for chin strap.
- \*      **Label:** See general references and requirements sheet.

#### General Instructions

#### Sizes and Measurements

- \*      **Sizes:**      Regular Oval: 6 3/8 - 7 7/8, in 1/8" increments  
                    Long Oval: 6 1/2 - 7 7/8, in 1/8" increments  
                    Extra Long Oval: 6 1/2 - 7 7/8, in 1/8" increments

## ATTACHMENT D

**C308 Hood, Male, Green Gore-Tex, Overshell**

**Specifications are identical for the following other components:**

**F305 Hood, Male, Brown Gore-Tex, Overshell**

**F306 Hood, Male, Brown Nylon, Insulated, Nylon Parka**

**N307 Hood, Male, Green Gore-Tex, Insulated, Overshell**

**N309 Hood, Male, Green Gore-Tex, Overshell**

**C310 Hood, Male, Green Nylon, Insulated, Nylon Parka**

**Sample Size:** Male-L

### GENERAL DESCRIPTION

The hood shall be detachable two piece construction with drawstring and snap front closures. The hood attaches to the shell with four snaps.

**TYPE ITEMS:** \* - All Hoods      \*-A – Uninsulated      \*-B,C-Insulated

CLASSIFICATION		COE #	FWS #	NPS # (M/F)
*	<b>All Hoods</b>	*	*	*
A	Goretex, Uninsulated	C308	F305	N309
B	Goretex, Insulated			N307
C	Nylon, Insulated	C310	F306	

### SALIENT CHARACTERISTICS

#### Components

- \* **Basic Material:** The basic material shall be outshell fabric, lining fabric, drawcord, cord locks and snaps shall be the same as those cited for use in the parka.
- \*-A **Style:** The hood shall be non-insulated, detachable two piece construction with drawstring and snap front closures. The hood attaches to the shell with four snaps.
- \*-B.C **Style:** The hood shall be insulated, detachable, two piece construction with drawstring and snap front closures. The hood attaches to the shell with four snaps.

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- \*- A **Construction:** The hood shall be constructed from three pieces of outer shell fabric and three pieces of lining fabric. The two main shell pieces and lining pieces shall be sewn together with a full fell seam, 1/4" gauge. The smaller outer shell fabric piece shall be stitched, turned, and topstitched 1/8" to the front edge of the outer shell to form a visor. The visor shall be 1" wide at sides and 2 1/4" wide at center front. The visor shall be interlined with a suitable non-woven fabric. The back edge of the visor shall be turned up and topstitched 1/8" to the hood with the front edge of the lining and both edges of a drawstring tunnel caught in between outer shell layers. The hood shall be 27" long along the face opening and 24 3/4" long on the bottom edge with 4 3/4" wide front extensions. The extension ends 5 inches past the facial plane of the hood. The left and right front extensions shall be formed by folding the outer shell fabric back to the inside 2" with the raw edge turned under and edge stitched 1/8" gauge. A female snap shall be located in each corner of the left extension 1/2" from each edge. A male snap shall be located 1/2" below the top right extension edge and another 1/2" above the bottom extension edge. The male snaps shall be 1 1/2" in from the right front edge. The bottom edge of hood and hood lining shall be joined by stitching, turning, and edge stitching 1/8" gauge. Four female snaps shall be 1" from the bottom edge in locations corresponding to male snap locations on the same size shell.
- \*-B,C **Construction:** The hood shall be constructed from three pieces of outer shell fabric and three pieces of lining fabric. The hood insulation shall be 200 gram batting and shall be stitched to the lining fabric. The two main shell pieces and lining pieces shall be sewn together with a full fell seam, 1/4 inch gauge. The smaller outer shell fabric piece shall be stitched, turned, and topstitched 1/8 inch gauge to the front edge of the outer shell to form a visor. The visor shall be 1 inch wide at sides and 2-1/4 inches wide at center front. The visor shall be interlined with a suitable nonwoven fabric. The back edge of the visor shall be turned up and topstitched 1/8 inch gauge to the hood with the front edge of the lining and both edges of a drawstring tunnel caught in between outer shell layers. The hood shall be 27-1/2 inches long along the face opening and 26-1/2 inches long on the bottom edge with 5 inches wide front extensions. The extension end 5 inches past the facial plane of the hood. The left and right front extensions shall be formed by folding the outer shell fabric back to the inside 2 inches with the raw edge turned under and edge stitched 1/8 inch gauge. A female snap shall be located in each corner of the left extension 1/2 inch from each edge. A male snap shall be located 1/2 inch below the top right extension edge and another 1/2 inch above the bottom extension edge. The male snaps shall be 1-1/2 inches in from the right front edge. The bottom edge of hood and hood lining shall be joined by stitching, turning, and edge stitching 1/8 inch gauge. Four female snaps shall be 1 inch from the bottom edge in locations corresponding to male snap locations on the same size parka.
- \* **Drawstring:** A drawstring tunnel shall be constructed from lining fabric. The tunnel shall be 1-1/2" wide at center front and 3/4" wide at front ends. The tunnel shall start 3" back from the right front extension, follow along the hood opening and end 3" back of the left front extension. The raw edges of the tunnel fabric shall be caught in the seam joining the back edge of the visor lining to the outer shell of the hood. Black painted brass eyelets shall be 3/16" diameter and shall be located through the hood extension at the end of each tunnel opening. A 1/8" diameter black nylon covered elastic cord shall run through the eyelets and tunnel. The drawcord shall be centered and sewn down to the rear center of the drawcord tunnel. Each drawcord end shall have a cord lock attached and a knot 1" from each end. The drawcord shall extend a minimum 2" past each eyelet when in a relaxed state.
- \* **Back Panel:** A 5/8" wide piece of hook tape 2" long shall be sewn horizontally to the top of the outershell back panel. The tape shall be centered with upper corners within 1/2" of the fell seam. A second piece of 5/8" by 2" long pile tape shall be sewn horizontally 1 1/2" below the lower edge of the hook tape.
- \* **Labels:** See references and requirements section. For insulated hoods add a woven Thinsulate care label in addition to flat care label inserted into the lining seam inside the hood.
- \* **Sizes:** S, M, L and XL, and XXL.

## ATTACHMENT D

### C310 Hood, Male, Green Nylon, Insulated, Nylon Parka

Specifications are identical for the following other components:

F305 Hood, Male, Brown Gore-Tex, Overshell  
F306 Hood, Male, Brown Nylon, Insulated, Nylon Parka  
N307 Hood, Male, Green Gore-Tex, Insulated, Overshell  
C308 Hood, Male, Green Gore-Tex, Overshell  
N309 Hood, Male, Green Gore-Tex, Overshell

Sample Size: Male-L

### GENERAL DESCRIPTION

The hood shall be detachable two piece construction with drawstring and snap front closures. The hood attaches to the shell with four snaps.

**TYPE ITEMS:** \* - All Hoods \* -A – Uninsulated \* -B,C-Insulated

CLASSIFICATION	COE #	FWS #	NPS # (M/F)
* <b>All Hoods</b>	*	*	*
A Goretex, Uninsulated	C308	F305	N309
B Goretex, Insulated			N307
C Nylon, Insulated	C310	F306	

### SALIENT CHARACTERISTICS

#### Components

- \* **Basic Material:** The basic material shall be outshell fabric, lining fabric, drawcord, cord locks and snaps shall be the same as those cited for use in the parka.
- \*-A **Style:** The hood shall be non-insulated, detachable two piece construction with drawstring and snap front closures. The hood attaches to the shell with four snaps.
- \*-B.C **Style:** The hood shall be insulated, detachable, two piece construction with drawstring and snap front closures. The hood attaches to the shell with four snaps.
- \*- A **Construction:** The hood shall be constructed from three pieces of outer shell fabric and three pieces of lining fabric. The two main shell pieces and lining pieces shall be sewn together with a full fell seam, 1/4" gauge. The smaller outer shell fabric piece shall be stitched, turned, and topstitched 1/8" to the front edge of the outer shell to form a visor. The visor shall be 1" wide at sides and 2 1/4" wide at center front. The visor shall be interlined with a suitable non-woven fabric. The back edge of the visor shall be turned up and topstitched 1/8" to the hood with the front edge of the lining and both edges of a drawstring tunnel caught in between outer shell layers. The hood shall be 27" long along the face opening and 24 3/4" long on the bottom edge with 4 3/4" wide front extensions. The extension ends 5 inches past the facial plane of the hood. The left and right front extensions shall be formed by folding the outer shell fabric back to the inside 2" with the raw edge turned under and edge stitched 1/8" gauge. A female snap shall be located in each corner of the left extension 1/2" from each edge. A male snap shall be located 1/2" below the top right extension edge and another 1/2" above the bottom extension edge. The male snaps shall be 1 1/2" in from the right front edge. The bottom edge of hood and hood lining shall be joined by stitching, turning, and edge stitching 1/8" gauge. Four female snaps shall be 1" from the bottom edge in locations corresponding to ale snap locations on the same size shell.



## ATTACHMENT D

- \*-B,C **Construction:** The hood shall be constructed from three pieces of outer shell fabric and three pieces of lining fabric. The hood insulation shall be 200 gram batting and shall be stitched to the lining fabric. The two main shell pieces and lining pieces shall be sewn together with a full fell seam, 1/4 inch gauge. The smaller outer shell fabric piece shall be stitched, turned, and topstitched 1/8 inch gauge to the front edge of the outer shell to form a visor. The visor shall be 1 inch wide at sides and 2-1/4 inches wide at center front. The visor shall be interlined with a suitable nonwoven fabric. The back edge of the visor shall be turned up and topstitched 1/8 inch gauge to the hood with the front edge of the lining and both edges of a drawstring tunnel caught in between outer shell layers. The hood shall be 27-1/2 inches long along the face opening and 26-1/2 inches long on the bottom edge with 5 inches wide front extensions. The extension end 5 inches past the facial plane of the hood. The left and right front extensions shall be formed by folding the outer shell fabric back to the inside 2 inches with the raw edge turned under and edge stitched 1/8 inch gauge. A female snap shall be located in each corner of the left extension 1/2 inch from each edge. A male snap shall be located 1/2 inch below the top right extension edge and another 1/2 inch above the bottom extension edge. The male snaps shall be 1-1/2 inches in from the right front edge. The bottom edge of hood and hood lining shall be joined by stitching, turning, and edge stitching 1/8 inch gauge. Four female snaps shall be 1 inch from the bottom edge in locations corresponding to male snap locations on the same size parka.
- \* **Drawstring:** A drawstring tunnel shall be constructed from lining fabric. The tunnel shall be 1-1/2" wide at center front and 3/4" wide at front ends. The tunnel shall start 3" back from the right front extension, follow along the hood opening and end 3" back of the left front extension. The raw edges of the tunnel fabric shall be caught in the seam joining the back edge of the visor lining to the outer shell of the hood. Black painted brass eyelets shall be 3/16" diameter and shall be located through the hood extension at the end of each tunnel opening. A 1/8" diameter black nylon covered elastic cord shall run through the eyelets and tunnel. The drawcord shall be centered and sewn down to the rear center of the drawcord tunnel. Each drawcord end shall have a cord lock attached and a knot 1" from each end. The drawcord shall extend a minimum 2" past each eyelet when in a relaxed state.
- \* **Back Panel:** A 5/8" wide piece of hook tape 2" long shall be sewn horizontally to the top of the outershell back panel. The tape shall be centered with upper corners within 1/2" of the fell seam. A second piece of 5/8" by 2" long pile tape shall be sewn horizontally 1 1/2" below the lower edge of the hook tape.
- \* **Labels:** See references and requirements section. For insulated hoods add a woven Thinsulate care label in addition to flat care label inserted into the lining seam inside the hood.
- \* **Sizes:** S, M, L and XL, and XXL.

## ATTACHMENT D

### C314 Hood, Female, Green Gore-Tex, Overshell

Specifications are identical for the following other components:

F311 Hood, Female, Brown Gore-Tex, Overshell  
F312 Hood, Female, Brown Nylon, Insulated, Nylon Parka  
N313 Hood, Female, Green Gore-Tex, Insulated, Overshell  
N315 Hood, Female, Green Gore-Tex, Overshell  
C316 Hood, Female, Green Nylon, Insulated, Nylon Parka

Sample Size: Female-M

### GENERAL DESCRIPTION

The hood shall be detachable two piece construction with drawstring and snap front closures. The hood attaches to the shell with four snaps.

**TYPE ITEMS:** \* - All Hoods \*-A – Uninsulated \*-B,C- Insulated

CLASSIFICATION	COE #	FWS #	NPS #
* All Hoods	*	*	*
A Goretex, Uninsulated	C314	F311	N315
B Goretex, Insulated			N313
C Nylon, Insulated	C316	F312	

### SALIENT CHARACTERISTICS

#### Components

#### Type-Class

- \* **Basic Material:** The basic material shall be outshell fabric, lining fabric, drawcord, cord locks and snaps shall be the same as those cited for use in the parka.
- \*-A **Style:** The hood shall be non-insulated, detachable two piece construction with drawstring and snap front closures. The hood attaches to the shell with four snaps.
- \*-B.C **Style:** The insulated hood shall be detachable, two piece construction with drawstring and snap front closures. The hood attaches to the shell with four snaps.
- \*-A **Construction:** The hood shall be constructed from three pieces of outer shell fabric and three pieces of lining fabric. The two main shell pieces and lining pieces shall be sewn together with a full fell seam, 1/4" gauge. The smaller outer shell fabric piece shall be stitched, turned, and topstitched 1/8" gauge to the front edge of the outer shell to form a visor. The visor shall be 1" wide at sides and 2" wide at center front. The visor shall be interlined with a suitable non-woven fabric. The back edge of the visor shall be turned up and topstitched 1/8" gauge to the hood with the front edge of the lining and both edges of a drawstring tunnel caught in between outer shell layers. The hood shall be 26 1/2" long along the face opening and 23 1/2" long on the bottom edge with 4 3/4" wide front extensions. The extension ends 4 inches past the facial plane of the hood. The left and right front extensions shall be formed by folding the outer shell fabric back to the inside 2" with the raw edge turned under and edge stitched 1/8" gauge. A female snap shall be located in each corner of the right extension 1/2" from each edge. A male snap shall be located 1/2" below the top left extension edge and another 1/2" above the bottom extension edge. The male snaps shall be 1 1/2" in from the left front edge. The bottom edge of hood and hood lining shall be joined by stitching, turning, and edge stitching 1/8" gauge. Four female snaps shall be 1" from the bottom edge in locations corresponding to male snap locations on the same size parka.

## ATTACHMENT D

- \*-B,C **Construction:** The hood shall be constructed from three pieces of outer shell fabric and three pieces of lining fabric. The hood insulation shall be 200 gram batting and shall be stitched to the lining fabric. The two main shell pieces and lining pieces shall be sewn together with a full fell seam, 1/4 inch gauge. The smaller outer shell fabric piece shall be stitched, turned, and topstitched 1/8 inch gauge to the front edge of the outer shell to form a visor. The visor shall be 1 inch wide at sides and 2-1/4 inches wide at center front. The visor shall be interlined with a suitable non-woven fabric. The back-edge of the visor shall be turned up and topstitched 1/8 inch gauge to the hood with the front edge of the lining and both edges of a drawstring tunnel caught in between outer shell layers. The hood shall be 27 inches long along the face opening and 23 inches long on the bottom edge with 4 3/4 inches wide front extensions. The extension ends 5 inches past the facial plane of the hood. The left and right front extensions shall be formed by folding the outer shell fabric back to the inside 2 inches with the raw edge turned under and edge stitched 1/16 inch gauge. A female snap shall be located in each corner of the right extension 1/2 inch from each edge. A male snap shall be located 1/2 inch below the top left extension edge and another 1/2 inch above the bottom extension edge. The male snaps shall be 1 1/2 inches from the right front edge. The bottom edge of hood and hood lining shall be joined by stitching, turning, and edge stitching 1/8 inch gauge. Four female snaps shall be 1 inch from the bottom edge in locations corresponding to male snap locations on the same size parka.
- \* **Drawstring:** A drawstring tunnel shall be constructed from lining fabric. The tunnel shall be 1-1/2" wide at center front and 3/4" wide at front ends. The tunnel shall start 3" back from the right front extension, follow along the hood opening and end 3" back of the left front extension. The raw edges of the tunnel fabric shall be caught in the seam joining the back edge of the visor lining to the outer shell of the hood. Black painted brass eyelets shall be 3/16" diameter and shall be located through the hood extension at the end of each tunnel opening. A 1/8" diameter black nylon covered elastic cord shall run through the eyelets and tunnel. The drawcord shall be centered and sewn down to the rear center of the drawcord tunnel. Each drawcord end shall have a cord lock attached and a knot 1" from each end. The drawcord shall extend a minimum 2" past each eyelet when in a relaxed state.
- \* **Back Panel:** A 5/8" wide piece of hook tape 2" long shall be sewn horizontally to the top of the outershell back panel. The tape shall be centered with upper corners within 1/2" of the fell seam. A second piece of 5/8" by 2" long pile tape shall be sewn horizontally 1 1/2" below the lower edge of the hook tape.
- \* **Labels:** See references and requirements section. For insulated hoods add a woven Thinsulate care label in addition to flat care label inserted into the lining seam inside the hood.
- \* **Sizes:** XS, S, M, L and XL.

## ATTACHMENT D

### C316 Hood, Female, Green Nylon, Insulated, Nylon Parka

Specifications are identical for the following other components:

F311 Hood, Female, Brown Gore-Tex, Overshell  
F312 Hood, Female, Brown Nylon, Insulated, Nylon Parka  
N313 Hood, Female, Green Gore-Tex, Insulated, Overshell  
C314 Hood, Female, Green Gore-Tex, Overshell  
N315 Hood, Female, Green Gore-Tex, Overshell

Sample Size: Female-M

### GENERAL DESCRIPTION

The hood shall be detachable two piece construction with drawstring and snap front closures. The hood attaches to the shell with four snaps.

**TYPE ITEMS:** \* - All Hoods      \*-A – Uninsulated      \*-B,C- Insulated

CLASSIFICATION	COE #	FWS #	NPS #
* All Hoods	*	*	*
A Goretex, Uninsulated	C314	F311	N315
B Goretex, Insulated			N313
C Nylon, Insulated	C316	F312	

### SALIENT CHARACTERISTICS

#### Components

#### Type-Class

- \* **Basic Material:** The basic material shall be outshell fabric, lining fabric, drawcord, cord locks and snaps shall be the same as those cited for use in the parka.
- \*-A **Style:** The hood shall be non-insulated, detachable two piece construction with drawstring and snap front closures. The hood attaches to the shell with four snaps.
- \*-B.C **Style:** The insulated hood shall be detachable, two piece construction with drawstring and snap front closures. The hood attaches to the shell with four snaps.
- \*-A **Construction:** The hood shall be constructed from three pieces of outer shell fabric and three pieces of lining fabric. The two main shell pieces and lining pieces shall be sewn together with a full fell seam, 1/4" gauge. The smaller outer shell fabric piece shall be stitched, turned, and topstitched 1/8" gauge to the front edge of the outer shell to form a visor. The visor shall be 1" wide at sides and 2" wide at center front. The visor shall be interlined with a suitable non-woven fabric. The back edge of the visor shall be turned up and topstitched 1/8" gauge to the hood with the front edge of the lining and both edges of a drawstring tunnel caught in between outer shell layers. The hood shall be 26 1/2" long along the face opening and 23 1/2" long on the bottom edge with 4 3/4" wide front extensions. The extension ends 4 inches past the facial plane of the hood. The left and right front extensions shall be formed by folding the outer shell fabric back to the inside 2" with the raw edge turned under and edge stitched 1/8" gauge. A female snap shall be located in each corner of the right extension 1/2" from each edge. A male snap shall be located 1/2" below the top left extension edge and another 1/2" above the bottom extension edge. The male snaps shall be 1 1/2" in from the left front edge. The bottom edge of hood and hood lining shall be joined by stitching, turning, and edge stitching 1/8" gauge. Four female snaps shall be 1" from the bottom edge in locations corresponding to male snap locations on the same size parka.

## ATTACHMENT D

- \*-B,C **Construction:** The hood shall be constructed from three pieces of outer shell fabric and three pieces of lining fabric. The hood insulation shall be 200 gram batting and shall be stitched to the lining fabric. The two main shell pieces and lining pieces shall be sewn together with a full fell seam, 1/4 inch gauge. The smaller outer shell fabric piece shall be stitched, turned, and topstitched 1/8 inch gauge to the front edge of the outer shell to form a visor. The visor shall be 1 inch wide at sides and 2-1/4 inches wide at center front. The visor shall be interlined with a suitable non-woven fabric. The back-edge of the visor shall be turned up and topstitched 1/8 inch gauge to the hood with the front edge of the lining and both edges of a drawstring tunnel caught in between outer shell layers. The hood shall be 27 inches long along the face opening and 23 inches long on the bottom edge with 4¾ inches wide front extensions. The extension ends 5 inches past the facial plane of the hood. The left and right front extensions shall be formed by folding the outer shell fabric back to the inside 2 inches with the raw edge turned under and edge stitched 1/16 inch gauge. A female snap shall be located in each corner of the right extension 1/2 inch from each edge. A male snap shall be located 1/2 inch below the top left extension edge and another 1/2 inch above the bottom extension edge. The male snaps shall be 1½ inches from the right front edge. The bottom edge of hood and hood lining shall be joined by stitching, turning, and edge stitching 1/8 inch gauge. Four female snaps shall be 1 inch from the bottom edge in locations corresponding to male snap locations on the same size parka.
- \* **Drawstring:** A drawstring tunnel shall be constructed from lining fabric. The tunnel shall be 1-1/2" wide at center front and 3/4" wide at front ends. The tunnel shall start 3" back from the right front extension, follow along the hood opening and end 3" back of the left front extension. The raw edges of the tunnel fabric shall be caught in the seam joining the back edge of the visor lining to the outer shell of the hood. Black painted brass eyelets shall be 3/16" diameter and shall be located through the hood extension at the end of each tunnel opening. A 1/8" diameter black nylon covered elastic cord shall run through the eyelets and tunnel. The drawcord shall be centered and sewn down to the rear center of the drawcord tunnel. Each drawcord end shall have a cord lock attached and a knot 1" from each end. The drawcord shall extend a minimum 2" past each eyelet when in a relaxed state.
- \* **Back Panel:** A 5/8" wide piece of hook tape 2" long shall be sewn horizontally to the top of the outershell back panel. The tape shall be centered with upper corners within 1/2" of the fell seam. A second piece of 5/8" by 2" long pile tape shall be sewn horizontally 1 1/2" below the lower edge of the hook tape.
- \* **Labels:** See references and requirements section. For insulated hoods add a woven Thinsulate care label in addition to flat care label inserted into the lining seam inside the hood.
- \* **Sizes:** XS, S, M, L and XL.

## ATTACHMENT D

**C327 Jacket, Male, Green 16 Oz. 55/45 P/W Elastique, Ike Style**

**Specifications are identical for the following other components:**

**N326 Jacket, Male, Green 16 Oz. 55/45 P/W Elastique, Ike Style**

**N333 Jacket, Female, Green 16 Oz. 55/45 P/W Elastique, Ike Style**

**C334 Jacket, Female, Green 16 Oz. 55/45 P/W Elastique, Ike Style**

**Sample Size:** All dimensions are based on a Male size 48 and a Female size 12

### GENERAL DESCRIPTION

Eisenhower jacket with zipper front and one-piece back, rolled collar with notched lapels, two front patch pockets pleated with scalloped flaps, regular coat sleeves, and knit inserts at bottom of each side over hip.

**TYPE ITEMS:** \* --Male and Female      Type I—Male      Type II—Female

CLASSIFICATION	NPS # (M/F)	COE # (M/F)
* All Jackets	*	*
A NPS	N326/N333	
B COE		C327/C334

### SALIENT CHARACTERISTICS

#### Components

Type-Class

\* **Basic Material:** Material shall be Raeford Style 646-168 or equal. Shade to match Raeford color 168 (Forest Green). Elastique weave, 16 - 16 ½ oz. per linear yard. 55% Polyester/45% Wool.

**Fusible Interlinings:** N/A.

\*-A **Linings:** The coat shall be fully lined. The material for lining fronts, sleeves, pocket, flaps and back shall be Rayon lining, 3.7 ounce, color black, conforming to Class 1 of current issue of Military Specification MIL-C-368.

\*-B **Linings:** The coat shall be fully lined. The material for lining fronts, sleeves, pocket, flaps and back shall be rayon lining 3.7 ounces, color green, conforming to Class 1 of current issue of Military Specification MIL-C-368.

\* **Thread:** All thread, except #8 cotton gimp for buttonhole reinforcement, shall be cotton-covered polyester conforming to ticket numbers 70-2 ply 50-2 or 3 ply, and 30-2 or 3 ply of MIL-T-43548. Color of all thread shall be dyed to match shade of self-fabric.

\*-A **Buttons:** A 24 ligne bronze NPS Waterbury button or equal shall be inserted in each eyelet and fastened on the back side with a ring.

\*-B **Buttons:** A 24 ligne gold eagle embossed COE Waterbury lion crest or equal shall be inserted in each eyelet and fastened on the back side with a ring.

\* **Zipper:** A Talon # 42 or equal zipper shall extend from bottom of lapel to bottom edge of front. Zipper shall be brass, separating style, with brass slides. Zipper tape shall be a polyester/cotton blend fabric dyed to match basic material. Zipper length shall vary according to body length or jacket.

## ATTACHMENT D

- \* **Knitted band insert:** Waistband insert shall be 2x2 ply rib ½ cardigan of 93% nylon/ 7% elastic. The shade shall be dyed to match outer fabric. It shall measure 4” wide by 2 7/8” high and shall start at the side seam over the hip to the back.
- I-\* **Shoulder Pads:** Style #7, weight 1/2 ounce/pair of pads of 1/4 ounce/pad. Size: Neck to shoulder, 4 ¼”; armhole to armhole as wrapped around shoulder, 9 ¼”. Content: Polyester foam.
- II-\* **Shoulder Pads:** Style #7, weight 1/2 ounce/pair of pads of 1/4 ounce/pad. Size: Neck to shoulder, 4”; armhole to armhole as wrapped around shoulder, 8”. Content: Polyester foam.
- \* **Labels:** See general reference and requirements sheet.

### General Instructions

- \* **Cutting:** N/A.
- \* **Stitching:** All seaming and stitching of jacket shall use ticket number 30 or 50 except that overedging stitching may use ticket number 70-2 ply.
- \* **Button Holes:** A buttonhole shall be centered ½” from center point tip of pocket flap and shall be an uncut eyelet end, square bar type.

### Detail Design Characteristics

- I-\* **Front:** One piece fronts with a chest patch pocket on each side. Zipper to extend from bottom of lapel to bottom edge of front. Front edges to be topstitched ¼”. Facings shall be of basic material and cut in one piece. Front facing shall extend from neckline seam to bottom and shall be no less than 5” at top, tapering to no less than 3” at the bottom.
- II-\* **Front:** One piece fronts with a chest patch pocket on each side. Zipper to extend from bottom of lapel to bottom edge of front. Front edges to be topstitched ¼”. Facings shall be of basic material and cut in one piece. Front facing shall extend from neckline seam to bottom and shall be no less than 5” at top, tapering to no less than 3 1/2” at the bottom.
- II-A,B **Darts:** Shall be formed by cutting a small notch in the top of front panel and sewing it back together. Dart shall begin in the shoulder seam and follow the breast line to approximately the center of the top pocket.
- I-\* **Collar:** Collar shall be one piece of basic material, having an interliner of a good quality collar canvas that shall be padded to the felt undercollar. Collar and lapels shall be symmetrical in shape and be uniform in shape and size. Collar shall measure 1 5/8” from roll line at center back and 2” at notch. The lapels shall measure 4” at notch point and taper down to top of zipper. The collar shall cover the neck seams, fit the neck without caving in or sagging over shoulders, and fit the front shoulders neatly without looseness or folds under the collar. Collar and lapels shall be topstitched ¼” from the edge.
- II-\* **Collar:** Collar shall be one piece of basic material, having an interliner of a good quality collar canvas that shall be padded to the felt undercollar. Collar and lapels shall be symmetrical in shape and be uniform in shape and size. Collar shall measure 1 5/8” from roll line at center back and 2” at notch. The lapels shall measure 3 ½” at notch point and taper down to top of zipper. The collar shall cover the neck seams, fit the neck without caving in or sagging over shoulders, and fit the front shoulders neatly without looseness or folds under the collar. Collar and lapels shall be topstitched ¼” from the edge.

## ATTACHMENT D

- I-\*** **Pocket Flaps:** Front pocket flaps shall be constructed from basic material and lined with the 3.7 ounce Rayon lining fabric. Flaps, topstitched 3/16", are to be 3 pointed style 5 3/4" wide, 2 1/4" at side points, and 3" at center points. Top of flap shall be located 1/2" above top of pocket. A male snap component shall be located under each side point and shall be fastened to the lining and not show on the outside of the flap. Snaps shall not be sewn on.
- II-\*** **Pocket Flaps:** Front pocket flaps shall be constructed from basic material and lined with the 3.7 ounce Rayon lining fabric. Flaps, topstitched 3/16", are to be 3 pointed style 5 1/2" wide, 2 1/2" at side points and at center points. Top of flap shall be located 1/2" above top of pocket. A male snap component shall be located under each side point and shall be fastened to the lining and not show on the outside flap. Snaps shall not be sewn on.
- I-\*** **Pockets:** Two outside breast pleated patch pockets are made of self-material. Box pleat of pocket shall be 1 1/2" wide and sewn down to prevent spreading. Pockets shall be 5 5/8" wide by 6" deep with rounded corners at the bottom. The pocket shall be lined with the 3.7 ounce Rayon lining fabric. Pocket closure shall be by two 3/8" snaps located to correspond with male snaps on flap. Pocket shall be topstitched 3/16" from edge.
- One piped slash pocket shall be located under right front and sewn into the jacket lining. The pocket shall be constructed from the 3.7 ounce Rayon lining fabric and shall finish 5 1/2" wide and 6" deep.
- II-\*** **Pockets:** Two outside breast pleated patch pockets of self-material. Box pleat of pocket shall be 1 3/8" wide and sewn down to prevent spreading. Pockets shall be 5 1/4" wide by 6" deep with rounded corners at the bottom. The pocket shall be lined with the 3.7 ounce Rayon lining fabric. Pocket closure shall be by two 3/8" snaps located to correspond with male snaps on flap. Pocket shall be topstitched 3/16" from edge.
- One piped slash pocket shall be located under left front and sewn into the jacket lining. The pocket shall be constructed from the 3.7 ounce Rayon lining fabric and shall finish 5" wide and 5 1/2" deep.
- \*** **Sleeves:** The two piece sleeve shall be set and joined with fullness properly distributed over the sleeve head, and shall hang uniformly straight. Cloth sweat shields of basic material shall have edges piped with good quality Rayon binding. Sweat shields shall be stitched down all around. Sleeves shall be hand felled at top half of armhole and machine stitched at bottom half. Sleeves shall be fully lined with the 3.7 ounce Rayon lining fabric with a 1 1/2" minimum turn under at the bottom of the sleeve.
- \*-A** **Badge Reinforcement:** Black enameled badge holder, Waterbury No. 9705, or equal, shall be placed above the left pocket flap, centered and sewn on by hand. Base of holder shall be 1/2" above top of pocket flap.
- \*-B** **Badge Reinforcement:** Black enameled badge holder, Waterbury No. 9705, or equal, shall be placed above the left pocket flap, centered and sewn on by hand. Base of holder shall be 1/2" above top of pocket flap.
- \*** **Bottom:** Bottom lining hem shall be turned under not less than 5/8" and securely stitched. Lining shall not be visible on outside of jacket. The self-goods turned up at the bottom of the jacket shall be a minimum of 2 1/2".
- \*** **Lining:** The seam allowance of the lining shall be tacked to corresponding side seam and sleeve seam allowances of the coat.



## ATTACHMENT D

- \*-A      **Patch:** An arrowhead shoulder patch shall be sewn on securely in the center of the left sleeve with the top edge 1 ¼” to 1 ½” below the shoulder seam depending on the garment size. The patch shall be sewn with inconspicuous stitching using brown thread closely matching the emblem background color.
- \*-B      **Patch:** The Corps of Engineers ensign shoulder patch shall be sewn securely in the center of the left sleeve with the top edge 1 ½” below the shoulder seam. The patch shall be sewn with inconspicuous stitching using white thread to match the emblem background color. Red around red border.

### Sizes and Measurements

#### Finished Dimensions (in even increments)

<b>I-*</b>	<b>Sizes:</b>	Short:	34-46
		Regular:	34-54
		Long:	38-54
		Xlong:	40-54
<b>II-*</b>	<b>Sizes:</b>	Petite:	4-16
		Regular:	4-24
		Tall:	8-24

## ATTACHMENT D

### C328 Jacket, Male, Green 3 Oz. Nylon Poplin Lined Windbreaker, w BT

Specifications are identical for the following other components:

### C335 Jacket, Female, Green 3 Oz. Nylon Poplin Lined Windbreaker, w BT

**Sample Size:** All dimensions are based on Male size M and Female size M

#### GENERAL DESCRIPTION

The jacket is a lined windbreaker style uniform jacket with a plain back, shirred waistband, patch front pockets and a zipper front closure to the neck.

**TYPE ITEMS:** \*- All Jackets                      Type I: Male                      Type II: Female

#### CLASSIFICATION

\* All Jackets

#### SALIENT CHARACTERISTICS

##### Components

Type-Class

- \* **Basic Materials:** The shell shall be made of Techstyles Techtique: 100% Tactel Nylon, 3-3.25 oz./square yard, Poplin Weave with an Ever-dry finish for storm proof protection in Forest Green.
- \* **Linings:** The permanent lining shall be a 104 X 86 thread count, 100% Nylon Taffeta in Forest Green.
- \* **Zipper:** A black nylon separating zipper (from neck to hemline) shall be used.
- \* **Buttons:** The epaulets and pockets shall have Gold Waterbury 24-Ligne COE buttons.
- \* **Labels:** See general reference and requirements sheet.

##### General Instructions

- \* **Cutting:** N/A.
- \* **Stitching:** N/A.
- \* **Button Holes:** There shall be a sewn in buttonhole in the center of the pocket flap to accommodate a 24-Ligne metal button.

##### Detail Design Characteristics

- I-\* **Collar:** The collar shall be made of self-goods and lined with fused interlining. It shall be made with an inset collar band 1 ½" wide tapering into the collar seam. The collar points shall finish 3 ¼" at the widest point and shall be sewn with single needle stitching, leaving a ¼" welt at the edges.
- II-\* **Collar:** The collar shall be made of self-goods and lined with fused interlining. It shall be made with an inset collar band 1 ½" wide tapering into the collar seam. The collar points shall finish 3 7/8" at the widest point and shall be sewn with single needle stitching, leaving a ¼" welt at the edges.

## ATTACHMENT D

- I-\*** **Shoulder Straps:** The shoulder straps shall be made of self-goods lined with non-woven interlining. They shall be 2 ¼" wide at the sleeve seam, tapering to 1 5/8" at the pointed end. The shoulder strap shall be sewn into the sleeve seam, topstitched and cross-stitched. The shoulder straps must extend underneath collar.
- II-\*** **Shoulder Straps:** The shoulder straps shall be made of self-goods lined with non-woven interlining. They shall be 2" wide at the sleeve seam, tapering to 1 5/8" at the pointed end. The shoulder strap shall be sewn into the sleeve seam, topstitched and cross-stitched. The shoulder straps must extend underneath collar.
- \*** **Front:** The front shall close with a Nylon separating zipper from the hem line to the neck line.
- I-\*** **Pocket Flaps:** The pocket flaps shall be pointed with the center peak being 2 3/4" at the widest point. They shall be attached ¼" above the patch pocket, being attached with single needle stitching. There shall be a sewn-in buttonhole in the center of the flap to accommodate a 24-ligne metal button. Hook and Pile ½" wide x 1" long to be placed on each flap to match the pocket Hook and Pile. The pocket has a pencil slot and a vertical bartack.
- II-\*** **Pocket Flaps:** The pocket flaps shall be pointed with the center peak being 3" at the widest point. They shall be attached ¼" above the patch pocket, being attached with single needle stitching. There shall be a sewn-in buttonhole in the center of the flap to accommodate a 24-ligne metal button. Hook and Pile ½" wide x 1" long to be placed on each flap to match the pocket Hook and Pile. The female's pocket has no pencil slot.
- I-\*** **Pockets:** There shall be (4) four front pockets. Two shall be inset hand warming pockets sewn into a welt seam extending from the shoulder seam down to the bottom of the jacket. The pocket opening shall be a minimum of 6". There shall be a bartack at top and bottom for strength. There shall also be two mitered patch and pleated pockets lined with non-woven interlining for stability. The pockets shall finish to be 5 ¼" wide and 6" long with the center pleat being 1 3/8" wide. The pockets shall be attached with single needle stitching leaving a ¼" welt along the edges. The top of the pockets shall be backtacked for extra strength. Hook and pile ½" wide and 1" long to be placed on each pocket.
- There shall be a right inside breast patch pocket 6" wide x 6" long.
- II-\*** **Pockets:** There shall be (4) four front pockets. Two shall be inset hand warming pockets sewn into a welt seam extending from the shoulder seam down to the bottom of the jacket. The pocket opening shall be a minimum of 5 1/2". There shall be a bartack at top and bottom for strength. There shall also be two mitered patch and pleated pockets lined with non-woven interlining for stability. The pockets shall finish to be 5 5/8" wide and 6" long with the center pleat being 1 3/8" wide. The pockets shall be attached with single needle stitching leaving a ¼" welt along the edges. The top of the pockets shall be backtacked for extra strength. Hook and pile ½" wide and 1" long to be placed on each pocket.
- There shall be a right inside breast patch pocket 5 1/2" wide x 5 1/2" long.
- \*** **Back:** The back shall be plain and of one piece. The bottom shall be shirred using wide polyester elastic and shall extend from 2 ½" forward from the front side seam all around the back of the jacket. There shall be two rows of stitching on the elastic waistband, the first 5/8" from the bottom and the second 1 3/8" from the bottom.
- \*** **Sleeves:** The sleeves shall be of the jacket type, plain, and of one piece.
- I-\*** **Cuffs:** The cuff shall be sewn into the sleeve end to finish 2 ¼" wide with two melamine buttons and one buttonhole closure.

## ATTACHMENT D

- II-\***     **Cuffs:** The cuff shall be sewn into the sleeve end to finish 2" wide with two melamine buttons and one buttonhole closure.
- \***         **Badge Reinforcement:** The badge tab shall be made of self-goods to finish 1" wide x 2" long. It shall be placed ½" above the left pocket flap and have two metal eyelets spaced 1" center to center.
- \***         **Lining:** The jacket shall be permanently lined with plain fronts and backs.
- \***         **Patch:** A U.S. Army Corps Of Engineers emblem shall be attached to the left sleeve 1 ¼" down from the seam.

### Sizes and Measurements

- \***                 **Finished Dimensions**
- I-\***            **Sizes:**        Short XS-L  
                         Regular XS-XXXL  
                         Long S-XXXL  
                         XLong M-XXL
- II-\***           **Sizes:**        Short M-L  
                         Regular S-XXL  
                         Long M-XXL

## ATTACHMENT D

**C334 Jacket, Female, Green 16 Oz. 55/45 P/W Elastique, Ike Style**

**Specifications are identical for the following other components:**

**N326 Jacket, Male, Green 16 Oz. 55/45 P/W Elastique, Ike Style**

**C327 Jacket, Male, Green 16 Oz. 55/45 P/W Elastique, Ike Style**

**N333 Jacket, Female, Green 16 Oz. 55/45 P/W Elastique, Ike Style**

**Sample Size:** All dimensions are based on a Male size 48 and a Female size 12

### GENERAL DESCRIPTION

Eisenhower jacket with zipper front and one-piece back, rolled collar with notched lapels, two front patch pockets pleated with scalloped flaps, regular coat sleeves, and knit inserts at bottom of each side over hip.

**TYPE ITEMS:** \* --Male and Female      Type I—Male      Type II—Female

CLASSIFICATION	NPS # (M/F)	COE # (M/F)
* All Jackets	*	*
A NPS	N326/N333	
B COE		C327/C334

### SALIENT CHARACTERISTICS

#### Components

Type-Class

\* **Basic Material:** Material shall be Raeford Style 646-168 or equal. Shade to match Raeford color 168 (Forest Green). Elastique weave, 16 - 16 ½ oz. per linear yard. 55% Polyester/45% Wool.

**Fusible Interlinings:** N/A.

\*-A **Linings:** The coat shall be fully lined. The material for lining fronts, sleeves, pocket, flaps and back shall be Rayon lining, 3.7 ounce, color black, conforming to Class 1 of current issue of Military Specification MIL-C-368.

\*-B **Linings:** The coat shall be fully lined. The material for lining fronts, sleeves, pocket, flaps and back shall be rayon lining 3.7 ounces, color green, conforming to Class 1 of current issue of Military Specification MIL-C-368.

\* **Thread:** All thread, except #8 cotton gimp for buttonhole reinforcement, shall be cotton-covered polyester conforming to ticket numbers 70-2 ply 50-2 or 3 ply, and 30-2 or 3 ply of MIL-T-43548. Color of all thread shall be dyed to match shade of self-fabric.

\*-A **Buttons:** A 24 ligne bronze NPS Waterbury button or equal shall be inserted in each eyelet and fastened on the back side with a ring.

\*-B **Buttons:** A 24 ligne gold eagle embossed COE Waterbury lion crest or equal shall be inserted in each eyelet and fastened on the back side with a ring.

\* **Zipper:** A Talon # 42 or equal zipper shall extend from bottom of lapel to bottom edge of front. Zipper shall be brass, separating style, with brass slides. Zipper tape shall be a polyester/cotton blend fabric dyed to match basic material. Zipper length shall vary according to body length or jacket.

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- \* **Knitted band insert:** Waistband insert shall be 2x2 ply rib ½ cardigan of 93% nylon/ 7% elastic. The shade shall be dyed to match outer fabric. It shall measure 4” wide by 2 7/8” high and shall start at the side seam over the hip to the back.
- I-\* **Shoulder Pads:** Style #7, weight 1/2 ounce/pair of pads of 1/4 ounce/pad. Size: Neck to shoulder, 4 ¼”; armhole to armhole as wrapped around shoulder, 9 ¼”. Content: Polyester foam.
- II-\* **Shoulder Pads:** Style #7, weight 1/2 ounce/pair of pads of 1/4 ounce/pad. Size: Neck to shoulder, 4”; armhole to armhole as wrapped around shoulder, 8”. Content: Polyester foam.
- \* **Labels:** See general reference and requirements sheet.

### General Instructions

- \* **Cutting:** N/A.
- \* **Stitching:** All seaming and stitching of jacket shall use ticket number 30 or 50 except that overedging stitching may use ticket number 70-2 ply.
- \* **Button Holes:** A buttonhole shall be centered ½” from center point tip of pocket flap and shall be an uncut eyelet end, square bar type.

### Detail Design Characteristics

- I-\* **Front:** One piece fronts with a chest patch pocket on each side. Zipper to extend from bottom of lapel to bottom edge of front. Front edges to be topstitched ¼”. Facings shall be of basic material and cut in one piece. Front facing shall extend from neckline seam to bottom and shall be no less than 5” at top, tapering to no less than 3” at the bottom.
- II-\* **Front:** One piece fronts with a chest patch pocket on each side. Zipper to extend from bottom of lapel to bottom edge of front. Front edges to be topstitched ¼”. Facings shall be of basic material and cut in one piece. Front facing shall extend from neckline seam to bottom and shall be no less than 5” at top, tapering to no less than 3 1/2” at the bottom.
- II-A,B **Darts:** Shall be formed by cutting a small notch in the top of front panel and sewing it back together. Dart shall begin in the shoulder seam and follow the breast line to approximately the center of the top pocket.
- I-\* **Collar:** Collar shall be one piece of basic material, having an interliner of a good quality collar canvas that shall be padded to the felt undercollar. Collar and lapels shall be symmetrical in shape and be uniform in shape and size. Collar shall measure 1 5/8” from roll line at center back and 2” at notch. The lapels shall measure 4” at notch point and taper down to top of zipper. The collar shall cover the neck seams, fit the neck without caving in or sagging over shoulders, and fit the front shoulders neatly without looseness or folds under the collar. Collar and lapels shall be topstitched ¼” from the edge.
- II-\* **Collar:** Collar shall be one piece of basic material, having an interliner of a good quality collar canvas that shall be padded to the felt undercollar. Collar and lapels shall be symmetrical in shape and be uniform in shape and size. Collar shall measure 1 5/8” from roll line at center back and 2” at notch. The lapels shall measure 3 ½” at notch point and taper down to top of zipper. The collar shall cover the neck seams, fit the neck without caving in or sagging over shoulders, and fit the front shoulders neatly without looseness or folds under the collar. Collar and lapels shall be topstitched ¼” from the edge.

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- I-\*** **Pocket Flaps:** Front pocket flaps shall be constructed from basic material and lined with the 3.7 ounce Rayon lining fabric. Flaps, topstitched 3/16", are to be 3 pointed style 5 3/4" wide, 2 1/4" at side points, and 3" at center points. Top of flap shall be located 1/2" above top of pocket. A male snap component shall be located under each side point and shall be fastened to the lining and not show on the outside of the flap. Snaps shall not be sewn on.
- II-\*** **Pocket Flaps:** Front pocket flaps shall be constructed from basic material and lined with the 3.7 ounce Rayon lining fabric. Flaps, topstitched 3/16", are to be 3 pointed style 5 1/2" wide, 2 1/2" at side points and at center points. Top of flap shall be located 1/2" above top of pocket. A male snap component shall be located under each side point and shall be fastened to the lining and not show on the outside flap. Snaps shall not be sewn on.
- I-\*** **Pockets:** Two outside breast pleated patch pockets are made of self-material. Box pleat of pocket shall be 1 1/2" wide and sewn down to prevent spreading. Pockets shall be 5 5/8" wide by 6" deep with rounded corners at the bottom. The pocket shall be lined with the 3.7 ounce Rayon lining fabric. Pocket closure shall be by two 3/8" snaps located to correspond with male snaps on flap. Pocket shall be topstitched 3/16" from edge.
- One piped slash pocket shall be located under right front and sewn into the jacket lining. The pocket shall be constructed from the 3.7 ounce Rayon lining fabric and shall finish 5 1/2" wide and 6" deep.
- II-\*** **Pockets:** Two outside breast pleated patch pockets of self-material. Box pleat of pocket shall be 1 3/8" wide and sewn down to prevent spreading. Pockets shall be 5 1/4" wide by 6" deep with rounded corners at the bottom. The pocket shall be lined with the 3.7 ounce Rayon lining fabric. Pocket closure shall be by two 3/8" snaps located to correspond with male snaps on flap. Pocket shall be topstitched 3/16" from edge.
- One piped slash pocket shall be located under left front and sewn into the jacket lining. The pocket shall be constructed from the 3.7 ounce Rayon lining fabric and shall finish 5" wide and 5 1/2" deep.
- \*** **Sleeves:** The two piece sleeve shall be set and joined with fullness properly distributed over the sleeve head, and shall hang uniformly straight. Cloth sweat shields of basic material shall have edges piped with good quality Rayon binding. Sweat shields shall be stitched down all around. Sleeves shall be hand felled at top half of armhole and machine stitched at bottom half. Sleeves shall be fully lined with the 3.7 ounce Rayon lining fabric with a 1 1/2" minimum turn under at the bottom of the sleeve.
- \*-A** **Badge Reinforcement:** Black enameled badge holder, Waterbury No. 9705, or equal, shall be placed above the left pocket flap, centered and sewn on by hand. Base of holder shall be 1/2" above top of pocket flap.
- \*-B** **Badge Reinforcement:** Black enameled badge holder, Waterbury No. 9705, or equal, shall be placed above the left pocket flap, centered and sewn on by hand. Base of holder shall be 1/2" above top of pocket flap.
- \*** **Bottom:** Bottom lining hem shall be turned under not less than 5/8" and securely stitched. Lining shall not be visible on outside of jacket. The self-goods turned up at the bottom of the jacket shall be a minimum of 2 1/2".
- \*** **Lining:** The seam allowance of the lining shall be tacked to corresponding side seam and sleeve seam allowances of the coat.

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- \*-A Patch:** An arrowhead shoulder patch shall be sewn on securely in the center of the left sleeve with the top edge 1 ¼” to 1 ½” below the shoulder seam depending on the garment size. The patch shall be sewn with inconspicuous stitching using brown thread closely matching the emblem background color.
- \*-B Patch:** The Corps of Engineers ensign shoulder patch shall be sewn securely in the center of the left sleeve with the top edge 1 ½” below the shoulder seam. The patch shall be sewn with inconspicuous stitching using white thread to match the emblem background color. Red around red border.

### Sizes and Measurements

#### Finished Dimensions (in even increments)

<b>I-*</b>	<b>Sizes:</b>	Short:	34-46
		Regular:	34-54
		Long:	38-54
		Xlong:	40-54
<b>II-*</b>	<b>Sizes:</b>	Petite:	4-16
		Regular:	4-24
		Tall:	8-24



## ATTACHMENT D

### C335 Jacket, Female, Green 3 Oz. Nylon Poplin Lined Windbreaker, with Badge Tab

Specifications are identical for the following other component:

### C328 Jacket, Male, Green 3 Oz. Nylon Poplin Lined Windbreaker, with Badge Tab

**Sample Size:** All dimensions are based on Male size M and Female size M

#### GENERAL DESCRIPTION

The jacket is a lined windbreaker style uniform jacket with a plain back, shirred waistband, patch front pockets and a zipper front closure to the neck.

**TYPE ITEMS:** \*- All items                      Type I: Male                      Type II: Female

#### CLASSIFICATION

\* All Jackets

#### SALIENT CHARACTERISTICS

##### Components

##### Type-Class

- \* **Basic Materials:** The shell shall be made of Techstyles Techtique: 100% Tactel Nylon, 3-3.25 oz./square yard, Poplin Weave with an Ever-dry finish for storm proof protection in Forest Green.
- \* **Linings:** The permanent lining shall be a 104 X 86 thread count, 100% Nylon Taffeta in Forest Green.
- \* **Zipper:** A black nylon separating zipper (from neck to hemline) shall be used.
- \* **Buttons:** The epaulets and pockets shall have Gold Waterbury 24-Ligne COE buttons.
- \* **Labels:** See general reference and requirements sheet.

##### General Instructions

- \* **Cutting:** N/A.
- \* **Stitching:** N/A.
- \* **Button Holes:** There shall be a sewn in buttonhole in the center of the pocket flap to accommodate a 24-Ligne metal button.

##### Detail Design Characteristics

- I-\* **Collar:** The collar shall be made of self-goods and lined with fused interlining. It shall be made with an inset collar band 1 ½" wide tapering into the collar seam. The collar points shall finish 3 ¼" at the widest point and shall be sewn with single needle stitching, leaving a ¼" welt at the edges.
- II-\* **Collar:** The collar shall be made of self-goods and lined with fused interlining. It shall be made with an inset collar band 1 ½" wide tapering into the collar seam. The collar points shall finish 3 7/8" at the widest point and shall be sewn with single needle stitching, leaving a ¼" welt at the edges.

## ATTACHMENT D

- I-\*** **Shoulder Straps:** The shoulder straps shall be made of self-goods lined with non-woven interlining. They shall be 2 ¼" wide at the sleeve seam, tapering to 1 5/8" at the pointed end. The shoulder strap shall be sewn into the sleeve seam, topstitched and cross-stitched. The shoulder straps must extend underneath collar.
- II-\*** **Shoulder Straps:** The shoulder straps shall be made of self-goods lined with non-woven interlining. They shall be 2" wide at the sleeve seam, tapering to 1 5/8" at the pointed end. The shoulder strap shall be sewn into the sleeve seam, topstitched and cross-stitched. The shoulder straps must extend underneath collar.
- \*** **Front:** The front shall close with a Nylon separating zipper from the hem line to the neck line.
- I-\*** **Pocket Flaps:** The pocket flaps shall be pointed with the center peak being 2 3/4" at the widest point. They shall be attached ¼" above the patch pocket, being attached with single needle stitching. There shall be a sewn-in buttonhole in the center of the flap to accommodate a 24-ligne metal button. Hook and Pile ½" wide x 1" long to be placed on each flap to match the pocket Hook and Pile. The pocket has a pencil slot and a vertical bartack.
- II-\*** **Pocket Flaps:** The pocket flaps shall be pointed with the center peak being 3" at the widest point. They shall be attached ¼" above the patch pocket, being attached with single needle stitching. There shall be a sewn-in buttonhole in the center of the flap to accommodate a 24-ligne metal button. Hook and Pile ½" wide x 1" long to be placed on each flap to match the pocket Hook and Pile. The female's pocket has no pencil slot.
- I-\*** **Pockets:** There shall be (4) four front pockets. Two shall be inset hand warming pockets sewn into a welt seam extending from the shoulder seam down to the bottom of the jacket. The pocket opening shall be a minimum of 6". There shall be a bartack at top and bottom for strength. There shall also be two mitered patch and pleated pockets lined with non-woven interlining for stability. The pockets shall finish to be 5 ¼" wide and 6" long with the center pleat being 1 3/8" wide. The pockets shall be attached with single needle stitching leaving a ¼" welt along the edges. The top of the pockets shall be backtacked for extra strength. Hook and pile ½" wide and 1" long to be placed on each pocket.
- There shall be a right inside breast patch pocket 6" wide x 6" long.
- II-\*** **Pockets:** There shall be (4) four front pockets. Two shall be inset hand warming pockets sewn into a welt seam extending from the shoulder seam down to the bottom of the jacket. The pocket opening shall be a minimum of 5 1/2". There shall be a bartack at top and bottom for strength. There shall also be two mitered patch and pleated pockets lined with non-woven interlining for stability. The pockets shall finish to be 5 5/8" wide and 6" long with the center pleat being 1 3/8" wide. The pockets shall be attached with single needle stitching leaving a ¼" welt along the edges. The top of the pockets shall be backtacked for extra strength. Hook and pile ½" wide and 1" long to be placed on each pocket.
- There shall be a right inside breast patch pocket 5 1/2" wide x 5 1/2" long.
- \*** **Back:** The back shall be plain and of one piece. The bottom shall be shirred using wide polyester elastic and shall extend from 2 ½" forward from the front side seam all around the back of the jacket. There shall be two rows of stitching on the elastic waistband, the first 5/8" from the bottom and the second 1 3/8" from the bottom.
- \*** **Sleeves:** The sleeves shall be of the jacket type, plain, and of one piece.
- I-\*** **Cuffs:** The cuff shall be sewn into the sleeve end to finish 2 ¼" wide with two melamine buttons and one buttonhole closure.

## ATTACHMENT D

- II-\***     **Cuffs:** The cuff shall be sewn into the sleeve end to finish 2" wide with two melamine buttons and one buttonhole closure.
- \***         **Badge Reinforcement:** The badge tab shall be made of self-goods to finish 1" wide x 2" long. It shall be placed ½" above the left pocket flap and have two metal eyelets spaced 1" center to center.
- \***         **Lining:** The jacket shall be permanently lined with plain fronts and backs.
- \***         **Patch:** A U.S. Army Corps Of Engineers emblem shall be attached to the left sleeve 1 ¼" down from the seam.

### Sizes and Measurements

- \***                 **Finished Dimensions**
- I-\***             **Sizes:**         Short XS-L  
                             Regular XS-XXXL  
                             Long S-XXXL  
                             XLong M-XXL
- II-\***            **Sizes:**         Short M-L  
                             Regular S-XXL  
                             Long M-XXL

## ATTACHMENT D

**C337 Jeans, Male, Forest Green 10 Oz. 50/50 P/C Twill**

**Specifications are identical for the following other components:**

**F336 Jeans, Male, Brown 12 Oz. Cotton Denim**

**N338 Jeans, Male, Forest Green 10 Oz. 50/50 P/C Twill**

**F339 Jeans, Female, Brown 12 Oz. Cotton Denim**

**C340 Jeans, Female, Forest Green 10 Oz. 50/50 P/C Twill**

**N341 Jeans, Female, Forest Green 10 Oz. 50/50 P/C Twill**

**Sample Size:** All dimensions based on Male size-34R, and Female size-10R

### GENERAL DESCRIPTION

Western style back yoke, relaxed fit, straight leg jean.

**TYPE ITEMS:** \*-Male and Female                      Type I—Male      Type II—Female

CLASSIFICATION	FWS # (M/F)	COE & NPS # (M/F)
* All Jeans	*	*
A 12 Oz. Cotton Denim	F 336/339	
B 10 Oz. 50/50 P/C Twill		C337/C340 N338/N341

### SALIENT CHARACTERISTICS

#### Components

Type-Class

- \*-A **Basic Material:** The material shall be Graniteville Super Natural Denim 66920/10, NSS soft touch, Brown, Pre-cured, 63" cutable, 12 oz./sq. yd. 100% cotton. (Fabric must be spread in one direction.).
- \*-B **Basic Material:** The material shall be Ferdinand Twill, 10 oz., 50% Dacron Polyester/50% Cotton, Permanent Press, Forest Green.
- \*-A **Pocket Fabric:** Polytwill (pre-cured), black, weight: 2.60 yds/lb. Thread count is 72 warp x 48 weft.
- \*-B **Pocket Fabric:** 65% polyester, 35% cotton, Black, 260 wt. minimum thread count 68 x 54.
- \* **Thread:** The thread for all sewing operations shall be 100% polyester wrapped polyester core, size TEX 40.
- \*-A **Zippers:** The jeans shall have a 45mm brass zipper chain. The zipper has a ratcheting cam lock slider. The right zipper tape shall be serged to the right fly. Both zipper tapes shall be sewn to the flies with a double needle lockstitch. The fly outline shall be a double needle lockstitch. The fly is bartacked at the bottom of the fly. A second bartack is located approximately 3/4" above the first bartack and is centered across the double needle stitching.
- \*-B **Zippers:** Shall be brass with bottom stop wire and memory lock. Zipper tape color shall be dark green and serged to right fly. Fly shall be bartacked at crotch and at fly outline. A tape to be sewn to fly's with two rows of lockstitch (301).
- \* **Labels:** See general reference and requirements sheet.

## ATTACHMENT D

### General Instructions

- \* **Stitching:** Double needle topstitching (1/4" gauge) shall be used on hip pockets, belt loops, front pocket openings, left and right fly. The seat, back yoke and inseams are full felled seams. The side seam shall be safety stitched and pressed toward the back of the jeans. All seams shall be stitched 8 to 10 stitches per inch.

### Detail Design Characteristics

- I-A** **Waistband:** The waistband is of single piece construction and shall be folder set with a single needle chainstitch. All edges of the waistband shall be topstitched 1/8". The finished waistband shall be 1 5/8 inches wide and shall close with a 27-ligne rivet button and buttonhole.
- II-A** **Waistband:** The waistband shall be single piece construction and shall be folder set with a double needle chain stitch. All edges of the waistband shall be topstitched 1/8". The finished waistband shall be 1 5/8 inches wide and shall close with a 27-ligne rivet button and buttonhole.
- \*-B** **Waistband:** Folderset with rivet button and buttonhole at band and closing waistband stitching shall be lockset.
- I-A,B** **Belt Loops:** Belt loops shall be 1/2" wide ladder stitch loops and shall finish 2 1/2" long. There shall be 5 belt loops on sizes 29 and down, 7 loops on sizes 30-48, and 9 loops on sizes 50 and up. The belt loops shall be bartacked even with the top of the band, and dropped and tacked 3/4" below the band. There shall be a 2" minimum opening. Loops on opposite sides of same garment shall match within width of a loop.
- II-A,B** **Belt Loops:** Belt loops shall be 1/2" wide ladder stitch loops and shall finish 2 1/2" long. There shall be 5 belt loops on sizes 12 and down, 7 loops on sizes 14 and up. The belt loops shall be bartacked even with the top of the band, and dropped and tacked 3/4" below the band. There shall be a 2" minimum opening. Loops on opposite sides of same garment shall match within width of a loop.
- I-A,B** **Front Pockets:** The front pockets shall be scoop style with a 3/8" folder hem. The pocket opening shall be bartacked at the waist and at the side seam. The opening between the bartacks is 5 3/4". The pocket bag is 9" deep from the bottom of the waistband to the bottom of the pocket bag. The pocket bags shall be safety stitched and turned.
- II-A,B** **Front Pockets:** The front pockets shall be scoop style with a 3/8" folder hem. The pocket opening shall be bartacked at the waist and at the side seam. The opening between the bartacks is 5 1/4". The pocket bag is 10 1/2" deep from the bottom of the waistband to the bottom of the pocket bag. The pocket bags shall be safety stitched and turned.
- I-A,B** **Hip Pockets:** The two spade shaped back pockets shall be 6" wide, 5 3/4" at the sides and 6 1/2" long at the center. The upper hem is a 1/2" folder hem, double needle chain stitched. The pockets are attached with a double needle lockstitch. The upper corners of the pockets have horizontal bartacks.

## ATTACHMENT D

**II-A,B**      **Hip Pockets:** The two spade shaped back pockets shall be 5" wide, 4 ¼" at the sides and 5 ¼" long at the center for sizes 6 and down. Back pockets on sizes 8 and up shall be 6" wide, 5¼" at the sides and 6¼" long at the center. The upper hem is a 1/2" folder hem, double needle chain stitched. The pockets are attached with a double needle lockstitch. The upper corners of the pockets have horizontal bartacks.

\*              **Bottoms:** Turn up the lower edge 1/2", fold over 1/2" and stitch with a single needle lockstitch, 1/2" gauge.

### Sizes and Measurements

#### Finished Dimensions

**I-\***      **Sizes:** Regular: 28-38 all increments and 40-60 in even increments only.  
Long: 28 - 50 in even increments only.

**II-\***      **Sizes:** Regular: 2-30 in even increments only  
Tall: 4-24 in even increments only

## ATTACHMENT D

### C340 Jeans, Female, Forest Green 10 Oz. 50/50 P/C Twill

Specifications are identical for the following other components:

F336 Jeans, Male, Brown 12 Oz. Cotton Denim  
C337 Jeans, Male, Forest Green 10 Oz. 50/50 P/C Twill  
N338 Jeans, Male, Forest Green 10 Oz. 50/50 P/C Twill  
F339 Jeans, Female, Brown 12 Oz. Cotton Denim  
N341 Jeans, Female, Forest Green 10 Oz. 50/50 P/C Twill

**Sample Size:** All dimensions based on Male size-34R, and Female size-10R

### GENERAL DESCRIPTION

Western style back yoke, relaxed fit, straight leg jean.

**TYPE ITEMS:** \*-Male and Female                      Type I—Male      Type II—Female

CLASSIFICATION	FWS # (M/F)	COE & NPS # (M/F)
* All Jeans	*	*
A 12 Oz. Cotton Denim	F 336/339	
B 10 Oz. 50/50 P/C Twill		C337/C340 N338/N341

### SALIENT CHARACTERISTICS

#### Components

Type-Class

- \*-A **Basic Material:** The material shall be Graniteville Super Natural Denim 66920/10, NSS soft touch, Brown, Pre-cured, 63" cutable, 12 oz./sq. yd. 100% cotton. (Fabric must be spread in one direction.).
- \*-B **Basic Material:** The material shall be Ferdinand Twill, 10 oz., 50% Dacron Polyester/50% Cotton, Permanent Press, Forest Green.
- \*-A **Pocket Fabric:** Polytwill (pre-cured), black, weight: 2.60 yds/lb. Thread count is 72 warp x 48 weft.
- \*-B **Pocket Fabric:** 65% polyester, 35% cotton, Black, 260 wt. minimum thread count 68 x 54.
- \* **Thread:** The thread for all sewing operations shall be 100% polyester wrapped polyester core, size TEX 40.
- \*-A **Zippers:** The jeans shall have a 45mm brass zipper chain. The zipper has a ratcheting cam lock slider. The right zipper tape shall be serged to the right fly. Both zipper tapes shall be sewn to the flies with a double needle lockstitch. The fly outline shall be a double needle lockstitch. The fly is bartacked at the bottom of the fly. A second bartack is located approximately 3/4" above the first bartack and is centered across the double needle stitching.
- \*-B **Zippers:** Shall be brass with bottom stop wire and memory lock. Zipper tape color shall be dark green and serged to right fly. Fly shall be bartacked at crotch and at fly outline. A tape to be sewn to fly's with two rows of lockstitch (301).
- \* **Labels:** See general reference and requirements sheet.

## ATTACHMENT D

### General Instructions

- \* **Stitching:** Double needle topstitching (1/4" gauge) shall be used on hip pockets, belt loops, front pocket openings, left and right fly. The seat, back yoke and inseams are full felled seams. The side seam shall be safety stitched and pressed toward the back of the jeans. All seams shall be stitched 8 to 10 stitches per inch.

### Detail Design Characteristics

- I-A** **Waistband:** The waistband is of single piece construction and shall be folder set with a single needle chainstitch. All edges of the waistband shall be topstitched 1/8". The finished waistband shall be 1 5/8 inches wide and shall close with a 27-ligne rivet button and buttonhole.
- II-A** **Waistband:** The waistband shall be single piece construction and shall be folder set with a double needle chain stitch. All edges of the waistband shall be topstitched 1/8". The finished waistband shall be 1 5/8 inches wide and shall close with a 27-ligne rivet button and buttonhole.
- \*-B** **Waistband:** Folderset with rivet button and buttonhole at band and closing waistband stitching shall be lockset.
- I-A,B** **Belt Loops:** Belt loops shall be 1/2" wide ladder stitch loops and shall finish 2 1/2" long. There shall be 5 belt loops on sizes 29 and down, 7 loops on sizes 30-48, and 9 loops on sizes 50 and up. The belt loops shall be bartacked even with the top of the band, and dropped and tacked 3/4" below the band. There shall be a 2" minimum opening. Loops on opposite sides of same garment shall match within width of a loop.
- II-A,B** **Belt Loops:** Belt loops shall be 1/2" wide ladder stitch loops and shall finish 2 1/2" long. There shall be 5 belt loops on sizes 12 and down, 7 loops on sizes 14 and up. The belt loops shall be bartacked even with the top of the band, and dropped and tacked 3/4" below the band. There shall be a 2" minimum opening. Loops on opposite sides of same garment shall match within width of a loop.
- I-A,B** **Front Pockets:** The front pockets shall be scoop style with a 3/8" folder hem. The pocket opening shall be bartacked at the waist and at the side seam. The opening between the bartacks is 5 3/4". The pocket bag is 9" deep from the bottom of the waistband to the bottom of the pocket bag. The pocket bags shall be safety stitched and turned.
- II-A,B** **Front Pockets:** The front pockets shall be scoop style with a 3/8" folder hem. The pocket opening shall be bartacked at the waist and at the side seam. The opening between the bartacks is 5 1/4". The pocket bag is 10 1/2" deep from the bottom of the waistband to the bottom of the pocket bag. The pocket bags shall be safety stitched and turned.
- I-A,B** **Hip Pockets:** The two spade shaped back pockets shall be 6" wide, 5 3/4" at the sides and 6 1/2" long at the center. The upper hem is a 1/2" folder hem, double needle chain stitched. The pockets are attached with a double needle lockstitch. The upper corners of the pockets have horizontal bartacks.



## ATTACHMENT D

**II-A,B**      **Hip Pockets:** The two spade shaped back pockets shall be 5" wide, 4 ¼" at the sides and 5 ¼" long at the center for sizes 6 and down. Back pockets on sizes 8 and up shall be 6" wide, 5¼" at the sides and 6¼" long at the center. The upper hem is a 1/2" folder hem, double needle chain stitched. The pockets are attached with a double needle lockstitch. The upper corners of the pockets have horizontal bartacks.

\*              **Bottoms:** Turn up the lower edge 1/2", fold over 1/2" and stitch with a single needle lockstitch, 1/2" gauge.

### Sizes and Measurements

#### Finished Dimensions

**I-\***      **Sizes:** Regular: 28-38 all increments and 40-60 in even increments only.  
Long: 28 - 50 in even increments only.

**II-\***      **Sizes:** Regular: 2-30 in even increments only  
Tall: 4-24 in even increments only

## ATTACHMENT D

### C342 Jumper, Maternity, Forest Green 11 Oz. P/W Tropical

Specifications are identical for the following item:

### N343 Jumper, Maternity, Forest Green 11 Oz. P/W Tropical

#### GENERAL DESCRIPTION

Women's knee length jumper shall have an empire waist with four large pleats across the abdomen area and side seam pockets. The front has a v-neck. The semi-fitted back has a centered dress-length zipper and kick pleat.

#### CLASSIFICATION

- \* All Jumpers for COE and NPS

#### SALIENT CHARACTERISTICS

##### Components

##### Type-Class

- \* **Basic Material:** The material shall be Raeford Forest Green 55% Polyester/45% Wool, 11 oz Tropical.
- \* **Lining:** The front and back bodice shall be fully lined with a polyester lining. The top of the jumper shall have seams enclosed by a lining.
- \* **Pockets:** Two side seam pockets shall have a minimum opening of 6" and a depth of 6" from the bottom of the opening. The pocket bags shall be safety-stitched and constructed from lining fabric.
- \* **Zipper:** The jumper shall be closed with a black nylon 18" zipper down the center back.
- \* **Label:** See general reference and requirements sheet.

##### Sizes and Measurements

**Sizes:** XS-XL (Regular)

## ATTACHMENT D

### C377 Overshell, Male, Green Gore-Tex, Hip Length

Specifications are identical for the following other components:

F376 Overshell, Male, Brown Gore-Tex, Hip Length

F380 Overshell, Female, Brown Gore-Tex, Hip Length

C381 Overshell, Female, Green Gore-Tex, Hip Length

**Sample Size:** All dimensions are based on F376 - ML Regular, C377 - L, F380 - S, C381 - M

### GENERAL DESCRIPTION

The garment is a hip length Gore Tex overshell with a front storm flap, a two-way zipper, and snap closures. The overshell has an adjustable waist cord, zippered side vents, two outside hand pockets and two inside pockets. The overshell is fully lined and uninsulated. North Face "Park Peak" or Raven or equal.

**TYPE ITEMS:** \*--All Overshells Type I—Male Type II—Female

CLASSIFICATION	FWS # (M/F)	COE # (M/F)
* All Overshells	*	*
A Brown	F376 FWS-BC-71	
A Brown	F380 FWS-BC-74	
B Green		C377 COE-BCM-54
B Green		C381 COE-BCF-55

### SALIENT CHARACTERISTICS

#### Components

Type-Class

- \*-A **Basic Material:** The material shall be 100% Taslan Nylon bonded to Gore-Tex film, dark brown.
- \*-B **Basic Material:** The material shall be 100% Taslan Nylon Gore Tex, 2-ply--Forest Green.
- \* **Linings:** The overshell shall be fully lined.
- \* **Thread:** All stitching shall be lockstitch type 301. Sleeves shall be set to front and back panels with full fell seams, 1/4" gauge. All closing seams shall be hot air sealed with Gore-Tex sealing tape on the inside of the parka shell. Sealed seams and stitching shall show no leakage.
- \* **Snap:** The snaps shall be 24 line with a matching outer shell color enamel finish.
- I-\* **Zippers:** The front zipper shall be a Vislon plastic scoop type, size 8 or equal. The zipper shall have single pull, double sliders with long tabs. The sliders shall be located mouth-to-mouth. The tape shall be 3/4" wide. The pocket zippers shall be plastic continuous element style, size 5 or equal. The zippers shall be 7" long with long tab, single pull sliders. The tape shall be 5/8" wide.
- II-\* **Zippers:** The front zipper shall be a plastic scoop type, size 8 or equal. The zipper shall have single pull, double sliders with long tabs. The sliders shall be located mouth-to-mouth. The tape shall be 3/4" wide. The pocket zippers shall be plastic continuous element style, size 5 or equal. The zippers shall be 7" long with long tab, single pull sliders. The tape shall be 5/8" wide. The side vent zippers shall be 8" long Vislon plastic scoop type, size 5 or equal.
- \* **Labels:** See general reference and requirements sheet.

## ATTACHMENT D

### General Instructions

- \* **Stitching:** All stitching shall be lockstitch type 301. Sleeves shall be set to front and back panels with full fell seams, ¼" gauge. All closing seams shall be hot air sealed with Gore-Tex sealing tape on the inside of the parka shell. Sealed seams and stitching shall show no leakage.

### Detail Design Characteristics

- I-\* **Collar:** The collar and collar lining shall be made from outer shell fabric and interlined with a compatible nonwoven fabric. The top of the collar shall align with the top of the front weather flaps. Collar front edges shall be 3 3/8" wide and 3 3/8" wide at center back. Collar top shall be edge stitched ¼" gauge and shall be 24" across the top. Four male snaps shall be located 1" up from the collar seam with two located 2 ¼" and two located 6 7/8" to either side of the back centerline. A knitted collar shall be sewn into the inner collar seam and shall be 17 ½" wide. The knitted collar shall be 1 ¾" high at center back and taper off to each side. A 3/8" wide black nylon tape hanger loop 2" long shall be sewn into the inside collar seam at center back.
- II-\* **Collar:** The collar and collar lining shall be made from outer shell fabric and interlined with a compatible nonwoven fabric. The top of the collar shall align with the top of the front weather flaps. Collar front edges shall be 3 7/8" wide and 3" wide at center back. Collar top shall be edge stitched ¼" gauge and shall be 21" across the top. Four male snaps shall be located 1" up from the collar seam with two located 1 ¾" and two located 6" to either side of the back centerline. A knitted collar shall be sewn into the inner collar seam and shall be 16 ½" wide. The knitted collar shall be 2" high at center back and taper off to each side. A 3/8" wide black nylon tape hanger loop 2" long shall be sewn into the inside collar seam at center back.
- I-\* **Front:** The front shall have a two-way zippered closure from 1" below the top of the collar to within 2 ½" of the bottom edge. The front length shall be a minimum of 32 5/8" long. The front zipper shall be 29 ¼" long. The under (right) flap shall be 7/8" wide and 32 1/4" long and shall be sewn between the lining and the right zipper tape and shell fabric on the right front. The outer (left) flap shall be 2" wide and 32 ½" long and shall be sewn between the outer shell and the left zipper tape and lining fabric. Both flaps shall be interlined with a suitable non-woven fabric and edge stitched ¼" gauge. Seven female snaps shall be located on the outer flap 5/8" from the front edge. Top and bottom snaps shall be 5/8" from the panel top and bottom edges. The snap second from the top shall be 4 3/8" from the top edge with the remaining four snaps spaced equally between the second and bottom snaps. Male snaps shall be located 1 5/8" from the front edge of the under flap in locations corresponding to the female snaps. Half chest shall be 26" wide.
- II-\* **Front:** The front shall have a two-way zippered closure from ½" below the top of the collar to within 2 ½" of the bottom edge. The front length shall be a minimum of 30" long. The front zipper shall be 28 ½" long. The under (left) flap shall be 1 1/8" wide and 30" long and shall be sewn between the lining and the left zipper tape and shell fabric on the left front. The outer (right) flap shall be 2 1/8" wide and 30" long and shall be sewn between the outer shell and the right zipper tape and lining fabric. Both flaps shall be interlined with a suitable non-woven fabric and edge stitched ¼" gauge. Seven female snaps shall be located on the outer flap 5/8" from the front edge. Top and bottom snaps shall be 5/8" from the panel top and bottom edges. The snap second from the top shall be 4 ½" from the top edge with the remaining four snaps spaced equally between the second and bottom snaps. Male snaps shall be located 1 ¾" from the front edge of the under flap in locations corresponding to the female snaps. Half chest shall be 23" wide.

## ATTACHMENT D

- \* Drawstring:** A concealed drawstring tunnel shall be located at the waistline. The tunnel shall be formed by sewing a strip of fabric to the backside of the front and back outer shell panels. Top and bottom edges shall be turned under and topstitched 1/8" gauge. The tunnel shall finish 1" wide and run the circumference of the parka beginning and ending at front zipper tape/weather flap seams. A 3/16" diameter chrome plated black eyelet shall be located in the lining fabric within 2" of each front edge of the liner/weather flap seam. A 1/8" diameter nylon covered elastic cord shall enter through the tunnel and exit through the eyelets. The cord shall be 3" longer than each eyelet when in a fully relax state. The cord shall be knotted 1" from each end and shall have an 7/32" diameter Barreloc attached to each end close to each eyelet.
- I-\* Side Vents:** The side vents shall be 11 1/2" long and shall be closed with a centered, in-seam 10" zipper. The edges of the vent shall meet and shall be edge stitched, 7/16" gauge. A 1 5/8" wide storm flap shall be sewn into the shell/lining seam with the front zipper tape. The storm flap and lining shall be constructed from shell fabric and shall be interlined with a compatible interlining fabric. The rear edge of the storm flap shall be edge stitched 1/4" gauge. A male snap shall be fastened to the bottom rear corner of the storm flap, 1/2" from each edge. The rear zipper tape shall be caught between the shell and lining of the front edge of the back panel. A female snap shall be fastened in the bottom front corners of the back panel 5/8" from each edge.
- II-\* Side Vents:** The side vents shall be 11" long and shall be closed with a centered, in-seam 10" zipper. The edges of the vent shall meet and shall be edge stitched, 7/16" gauge. A 1 5/8" wide storm flap shall be sewn into the shell/lining seam with the front zipper tape. The storm flap and lining shall be constructed from shell fabric and shall be interlined with a compatible interlining fabric. The rear edge of the storm flap shall be edge stitched 3/16" gauge. A male snap shall be fastened to the bottom rear corner of the storm flap, 1/2" from each edge. The rear zipper tape shall be caught between the shell and lining of the front edge of the back panel. A female snap shall be fastened in the bottom front corners of the back panel 5/8" from each edge.
- I-\* Badge Reinforcement & Name Tab:** Badge and name tabs shall be constructed from the outershell fabric using seam type EF p-2 with lock stitching. The tabs shall finish 1/2" wide with 3/32 topstitching. The tab ends shall be turned under 1/4" and attached to the fronts with 3 rows of running tacks 1/16" from the folded edge. The badge tab shall be 1 3/4" long with two eyelets centered, 15/16" apart. The badge tab shall be located on the left front in vertical alignment with the inner edge 5 7/8" from the left front edge and the top edge 4 1/4" below the front shoulder seam. The name tab shall be 3" long with two eyelets centered, 2 1/8" apart. The name tab shall be located on the right front in horizontal alignment with the inner edge 3 1/2" from the front zipper tape and the top edge 7 1/8" below the front shoulder seam.
- II-\* Badge Reinforcement & Name Tab:** Badge and name tabs shall be constructed from the outershell fabric using seam type EF p-2 with lock stitching. The tabs shall finish 1/2" wide with 3/32 topstitching. The tab ends shall be turned under 1/4" and attached to the fronts with 3 rows of running tacks 1/16" from the folded edge. The badge tab shall be 1 3/4" long with two eyelets centered, 15/16" apart. The badge tab shall be located on the left front in vertical alignment with the inner edge 4 1/4" from the left front edge and the top edge 3" below the front shoulder seam. The name tab shall be 4 1/4" long with two eyelets centered, 1 7/8" apart. The name tab shall be located on the right front in horizontal alignment with the inner edge 3 3/4" from the front zipper tape and the top edge 5" below the front shoulder seam.
- I-\* Slash Pocket:** A zippered, single welt, hand warmer slash pocket shall be located on each front. The bottom of the pocket opening shall be 3 1/2" above the bottom front hem and 2 3/8" from the side seam. The top of the pocket opening shall be 10 1/2" from the bottom hem and 3" from the side seam. The opening shall be 7" long. The welt shall be 7" long and 5/8" wide. Welt edges shall be topstitched 1/16" gauge. Pocket lining shall be outer shell fabric and shall be 7" deep at center.

## ATTACHMENT D

- II-\*** **Slash Pocket:** A zippered, single welt, hand warmer slash pocket shall be located on each front. The bottom of the pocket opening shall be 2 7/8" above the bottom front hem and 2 1/2" from the side seam. The top of the pocket opening shall be 9" from the bottom hem and 3 1/2" from the side seam. The opening shall be 6 3/4" long. The welt shall be 7 1/8" long and 5/8" wide. Welt edges shall be topstitched 1/16" gauge. Pocket lining shall be outer shell fabric and shall be 7" deep at center.
- I-\*** **Patch Pocket:** A zippered patch pocket shall be located under the left front. The pocket shall be 7 3/4" wide by 7 1/2" deep with a 5 5/8" opening. The pocket shall be made from lining fabric. The zipper shall be centered 1 1/2" below top edge of pocket. Opening in lining shall be 6" long and 3/4" wide with inside edges turned under and topstitched 1/8" gauge. Top of pocket shall be level with bottom of armhole.
- A hook and pile closed patch pocket shall be 8" deep and run side seam to front seam with the top level with the bottom of the armhole. The top hem shall be turned under with the raw edge turned under and topstitched 1/16" gauge. The hem shall finish 3/4" wide with a 5/8" by 4" piece of hook tape sewn to the hem, centered side-to-side. A corresponding piece of pile tape shall be sewn on the right front lining. The pocket shall be made from lining fabric.
- II-\*** **Patch Pocket:** A zippered patch pocket shall be located under the left front. The pocket shall be 7 1/4" wide by 7 1/8" deep with a 5 1/2" opening. The pocket shall be made from lining fabric. The zipper shall be centered 2" below top edge of pocket. Opening in lining shall be 6" long and 3/4" wide with inside edges turned under and topstitched 1/8" gauge. Top of pocket shall be level with bottom of armhole.
- A hook and pile closed patch pocket shall be 6" deep and run side seam to front seam with the top level with the bottom of the armhole. The top hem shall be turned under with the raw edge turned under and topstitched 1/16" gauge. The hem shall finish 3/4" wide with a 5/8" by 4" piece of hook tape sewn to the hem, centered side-to-side. A corresponding piece of pile tape shall be sewn on the right front lining. The pocket shall be made from lining fabric.
- I-\*** **Back:** The back shall be plain and shall be 32 1/4" long at center back from collar seam to bottom edge.
- II-\*** **Back:** The back shall be plain and shall be 29 1/4" long at center back from collar seam to bottom edge.
- I-\*** **Sleeves:** The sleeves shall be raglan, one-piece construction. The sleeve head shall be 6 1/4" wide at the collar seam and shall be 32 1/2" long from collar seam to bottom edge. The sleeve shall be fully lined. The bottom edge of the shell fabric shall be turned up to the inside with the raw edge turned under and topstitched 1/8" gauge. The hem shall finish 3/4" wide. A 5 1/4" by 5/8" wide piece of pile tape shall be sewn to the outside of the sleeve on the hem located 2 1/8" from the closing seam and 1/8" up from the sleeve bottom. A 4 1/4" long tab shall be sewn into the closing seam at the bottom of the sleeve. The tab shall be 2" wide at the closing seam and 1 1/4" wide at the end with the diagonal edge up and the straight edge at the bottom in alignment with the bottom edge of the sleeve. A 2" by 5/8" piece of hook tape shall be sewn to the inside of the tape 1/8" from the bottom edge and 1/8" from the tab end. The tab shall be one piece construction from shell fabric and shall be edge stitched 1/4" gauge.
- II-\*** **Sleeves:** The sleeves shall be raglan, one-piece construction. The sleeve head shall be 5 1/4" wide at the collar seam and shall be 30 1/4" long from collar seam to bottom edge. The sleeve shall be fully lined. The bottom edge of the shell fabric shall be turned up to the inside with the raw edge turned under and topstitched 1/8" gauge. The hem shall finish 5/8" wide. A 5" by 5/8" wide piece of pile tape shall be sewn to the outside of the sleeve on the hem located 2" from the closing seam and 1/4" up from the sleeve bottom. A 4 1/4" long tab shall be sewn into the closing seam at the bottom of the sleeve. The tab shall be 2" wide at the closing seam and 1 1/4" wide at the end with the diagonal edge up and the straight edge at the bottom in alignment with the bottom edge of the sleeve. A 2" by 5/8" piece of hook tape shall be sewn to the inside of the tape 1/8" from the bottom edge and 1/4" from the tab end. The tab shall be one piece construction from shell fabric and shall be edge stitched 1/4" gauge.
- \*** **Hangerloop:** A 3/8" wide black nylon tape hanger loop 2" long shall be sewn into the inside collar seam at center back.

## ATTACHMENT D

- I-\***      **Bottoms:** The bottom outer shell fabric shall be turned up to the inside with raw edge turned under and edge stitched 1/16" gauge. The hem shall be 3/4" wide.
- II-\***      **Bottoms:** The bottom outer shell fabric shall be turned up to the inside with raw edge turned under and edge stitched 1/8" gauge. The hem shall be 1" wide.
- I-\***      **Patch:** The organizations shoulder patch shall be sewn securely in the center of the left sleeve with the top edge 7" below the collar seam. (raglan sleeves) The patch shall be sewn with inconspicuous stitching using thread to match the emblem border color.
- II-\***      **Patch:** The organizations shoulder patch shall be sewn securely in the center of the left sleeve with the top edge 7 1/4" below the collar seam. (raglan sleeves) The patch shall be sewn with inconspicuous stitching using thread to match the emblem border color.

### Sizes and Measurements

#### Finished Dimensions

**Sizes:**    Men:     Regular S-XXL Long S-XL  
              Female: Regular XS-XL

## ATTACHMENT D

### C381 Overshell, Female, Green Gore-Tex, Hip Length

Specifications are identical for the following other components:

F376 Overshell, Male, Brown Gore-Tex, Hip Length

C377 Overshell, Male, Green Gore-Tex, Hip Length

F380 Overshell, Female, Brown Gore-Tex, Hip Length

**Sample Size:** All dimensions are based on F376 - ML Regular, C377 - L, F380 - S, C381 - M

### GENERAL DESCRIPTION

The garment is a hip length Gore Tex overshell with a front storm flap, a two-way zipper, and snap closures. The overshell has an adjustable waist cord, zippered side vents, two outside hand pockets and two inside pockets. The overshell is fully lined and uninsulated. North Face "Park Peak" or Raven or equal.

**TYPE ITEMS:** \*--All Overshells      Type I—Male      Type II—Female

CLASSIFICATION		FWS # (M/F)		COE # (M/F)	
*	All Overshells	*		*	
A	Brown	F376	FWS-BC-71		
A	Brown	F380	FWS-BC-74		
B	Green			C377	COE-BCM-54
B	Green			C381	COE-BCF-55

### SALIENT CHARACTERISTICS

#### Components

Type-Class

- \*-A **Basic Material:** The material shall be 100% Taslan Nylon bonded to Gore-Tex film, dark brown.
- \*-B **Basic Material:** The material shall be 100% Taslan Nylon Gore Tex, 2-ply--Forest Green.
- \* **Linings:** The overshell shall be fully lined.
- \* **Thread:** All stitching shall be lockstitch type 301. Sleeves shall be set to front and back panels with full fell seams, 1/4" gauge. All closing seams shall be hot air sealed with Gore-Tex sealing tape on the inside of the parka shell. Sealed seams and stitching shall show no leakage.
- \* **Snap:** The snaps shall be 24 line with a matching outer shell color enamel finish.
- I-\* **Zippers:** The front zipper shall be a Vislon plastic scoop type, size 8 or equal. The zipper shall have single pull, double sliders with long tabs. The sliders shall be located mouth-to-mouth. The tape shall be 3/4" wide. The pocket zippers shall be plastic continuous element style, size 5 or equal. The zippers shall be 7" long with long tab, single pull sliders. The tape shall be 5/8" wide.
- II-\* **Zippers:** The front zipper shall be a plastic scoop type, size 8 or equal. The zipper shall have single pull, double sliders with long tabs. The sliders shall be located mouth-to-mouth. The tape shall be 3/4" wide. The pocket zippers shall be plastic continuous element style, size 5 or equal. The zippers shall be 7" long with long tab, single pull sliders. The tape shall be 5/8" wide. The side vent zippers shall be 8" long Vislon plastic scoop type, size 5 or equal.
- \* **Labels:** See general reference and requirements sheet.



## ATTACHMENT D

### General Instructions

- \* **Stitching:** All stitching shall be lockstitch type 301. Sleeves shall be set to front and back panels with full fell seams, ¼" gauge. All closing seams shall be hot air sealed with Gore-Tex sealing tape on the inside of the parka shell. Sealed seams and stitching shall show no leakage.

### Detail Design Characteristics

- I-\* **Collar:** The collar and collar lining shall be made from outer shell fabric and interlined with a compatible nonwoven fabric. The top of the collar shall align with the top of the front weather flaps. Collar front edges shall be 3 3/8" wide and 3 3/8" wide at center back. Collar top shall be edge stitched ¼" gauge and shall be 24" across the top. Four male snaps shall be located 1" up from the collar seam with two located 2 ¼" and two located 6 7/8" to either side of the back centerline. A knitted collar shall be sewn into the inner collar seam and shall be 17 ½" wide. The knitted collar shall be 1 ¾" high at center back and taper off to each side. A 3/8" wide black nylon tape hanger loop 2" long shall be sewn into the inside collar seam at center back.
- II-\* **Collar:** The collar and collar lining shall be made from outer shell fabric and interlined with a compatible nonwoven fabric. The top of the collar shall align with the top of the front weather flaps. Collar front edges shall be 3 7/8" wide and 3" wide at center back. Collar top shall be edge stitched ¼" gauge and shall be 21" across the top. Four male snaps shall be located 1" up from the collar seam with two located 1 ¾" and two located 6" to either side of the back centerline. A knitted collar shall be sewn into the inner collar seam and shall be 16 ½" wide. The knitted collar shall be 2" high at center back and taper off to each side. A 3/8" wide black nylon tape hanger loop 2" long shall be sewn into the inside collar seam at center back.
- I-\* **Front:** The front shall have a two-way zippered closure from 1" below the top of the collar to within 2 ½" of the bottom edge. The front length shall be a minimum of 32 5/8" long. The front zipper shall be 29 ¼" long. The under (right) flap shall be 7/8" wide and 32 1/4" long and shall be sewn between the lining and the right zipper tape and shell fabric on the right front. The outer (left) flap shall be 2" wide and 32 ½" long and shall be sewn between the outer shell and the left zipper tape and lining fabric. Both flaps shall be interlined with a suitable non-woven fabric and edge stitched ¼" gauge. Seven female snaps shall be located on the outer flap 5/8" from the front edge. Top and bottom snaps shall be 5/8" from the panel top and bottom edges. The snap second from the top shall be 4 3/8" from the top edge with the remaining four snaps spaced equally between the second and bottom snaps. Male snaps shall be located 1 5/8" from the front edge of the under flap in locations corresponding to the female snaps. Half chest shall be 26" wide.
- II-\* **Front:** The front shall have a two-way zippered closure from ½" below the top of the collar to within 2 ½" of the bottom edge. The front length shall be a minimum of 30" long. The front zipper shall be 28 ½" long. The under (left) flap shall be 1 1/8" wide and 30" long and shall be sewn between the lining and the left zipper tape and shell fabric on the left front. The outer (right) flap shall be 2 1/8" wide and 30" long and shall be sewn between the outer shell and the right zipper tape and lining fabric. Both flaps shall be interlined with a suitable non-woven fabric and edge stitched ¼" gauge. Seven female snaps shall be located on the outer flap 5/8" from the front edge. Top and bottom snaps shall be 5/8" from the panel top and bottom edges. The snap second from the top shall be 4 ½" from the top edge with the remaining four snaps spaced equally between the second and bottom snaps. Male snaps shall be located 1 ¾" from the front edge of the under flap in locations corresponding to the female snaps. Half chest shall be 23" wide.

## ATTACHMENT D

- \* Drawstring:** A concealed drawstring tunnel shall be located at the waistline. The tunnel shall be formed by sewing a strip of fabric to the backside of the front and back outer shell panels. Top and bottom edges shall be turned under and topstitched 1/8" gauge. The tunnel shall finish 1" wide and run the circumference of the parka beginning and ending at front zipper tape/weather flap seams. A 3/16" diameter chrome plated black eyelet shall be located in the lining fabric within 2" of each front edge of the liner/weather flap seam. A 1/8" diameter nylon covered elastic cord shall enter through the tunnel and exit through the eyelets. The cord shall be 3" longer than each eyelet when in a fully relax state. The cord shall be knotted 1" from each end and shall have an 7/32" diameter Barreloc attached to each end close to each eyelet.
- I-\* Side Vents:** The side vents shall be 11 1/2" long and shall be closed with a centered, in-seam 10" zipper. The edges of the vent shall meet and shall be edge stitched, 7/16" gauge. A 1 5/8" wide storm flap shall be sewn into the shell/lining seam with the front zipper tape. The storm flap and lining shall be constructed from shell fabric and shall be interlined with a compatible interlining fabric. The rear edge of the storm flap shall be edge stitched 1/4" gauge. A male snap shall be fastened to the bottom rear corner of the storm flap, 1/2" from each edge. The rear zipper tape shall be caught between the shell and lining of the front edge of the back panel. A female snap shall be fastened in the bottom front corners of the back panel 5/8" from each edge.
- II-\* Side Vents:** The side vents shall be 11" long and shall be closed with a centered, in-seam 10" zipper. The edges of the vent shall meet and shall be edge stitched, 7/16" gauge. A 1 5/8" wide storm flap shall be sewn into the shell/lining seam with the front zipper tape. The storm flap and lining shall be constructed from shell fabric and shall be interlined with a compatible interlining fabric. The rear edge of the storm flap shall be edge stitched 3/16" gauge. A male snap shall be fastened to the bottom rear corner of the storm flap, 1/2" from each edge. The rear zipper tape shall be caught between the shell and lining of the front edge of the back panel. A female snap shall be fastened in the bottom front corners of the back panel 5/8" from each edge.
- I-\* Badge Reinforcement & Name Tab:** Badge and name tabs shall be constructed from the outershell fabric using seam type EF p-2 with lock stitching. The tabs shall finish 1/2" wide with 3/32 topstitching. The tab ends shall be turned under 1/4" and attached to the fronts with 3 rows of running tacks 1/16" from the folded edge. The badge tab shall be 1 3/4" long with two eyelets centered, 15/16" apart. The badge tab shall be located on the left front in vertical alignment with the inner edge 5 7/8" from the left front edge and the top edge 4 1/4" below the front shoulder seam. The name tab shall be 3" long with two eyelets centered, 2 1/8" apart. The name tab shall be located on the right front in horizontal alignment with the inner edge 3 1/2" from the front zipper tape and the top edge 7 1/8" below the front shoulder seam.
- II-\* Badge Reinforcement & Name Tab:** Badge and name tabs shall be constructed from the outershell fabric using seam type EF p-2 with lock stitching. The tabs shall finish 1/2" wide with 3/32 topstitching. The tab ends shall be turned under 1/4" and attached to the fronts with 3 rows of running tacks 1/16" from the folded edge. The badge tab shall be 1 3/4" long with two eyelets centered, 15/16" apart. The badge tab shall be located on the left front in vertical alignment with the inner edge 4 1/4" from the left front edge and the top edge 3" below the front shoulder seam. The name tab shall be 4 1/4" long with two eyelets centered, 1 7/8" apart. The name tab shall be located on the right front in horizontal alignment with the inner edge 3 3/4" from the front zipper tape and the top edge 5" below the front shoulder seam.
- I-\* Slash Pocket:** A zippered, single welt, hand warmer slash pocket shall be located on each front. The bottom of the pocket opening shall be 3 1/2" above the bottom front hem and 2 3/8" from the side seam. The top of the pocket opening shall be 10 1/2" from the bottom hem and 3" from the side seam. The opening shall be 7" long. The welt shall be 7" long and 5/8" wide. Welt edges shall be topstitched 1/16" gauge. Pocket lining shall be outer shell fabric and shall be 7" deep at center.

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- II-\*** **Slash Pocket:** A zippered, single welt, hand warmer slash pocket shall be located on each front. The bottom of the pocket opening shall be 2 7/8" above the bottom front hem and 2 1/2" from the side seam. The top of the pocket opening shall be 9" from the bottom hem and 3 1/2" from the side seam. The opening shall be 6 3/4" long. The welt shall be 7 1/8" long and 5/8" wide. Welt edges shall be topstitched 1/16" gauge. Pocket lining shall be outer shell fabric and shall be 7" deep at center.
- I-\*** **Patch Pocket:** A zippered patch pocket shall be located under the left front. The pocket shall be 7 3/4" wide by 7 1/2" deep with a 5 5/8" opening. The pocket shall be made from lining fabric. The zipper shall be centered 1 1/2" below top edge of pocket. Opening in lining shall be 6" long and 3/4" wide with inside edges turned under and topstitched 1/8" gauge. Top of pocket shall be level with bottom of armhole.
- A hook and pile closed patch pocket shall be 8" deep and run side seam to front seam with the top level with the bottom of the armhole. The top hem shall be turned under with the raw edge turned under and topstitched 1/16" gauge. The hem shall finish 3/4" wide with a 5/8" by 4" piece of hook tape sewn to the hem, centered side-to-side. A corresponding piece of pile tape shall be sewn on the right front lining. The pocket shall be made from lining fabric.
- II-\*** **Patch Pocket:** A zippered patch pocket shall be located under the left front. The pocket shall be 7 1/4" wide by 7 1/8" deep with a 5 1/2" opening. The pocket shall be made from lining fabric. The zipper shall be centered 2" below top edge of pocket. Opening in lining shall be 6" long and 3/4" wide with inside edges turned under and topstitched 1/8" gauge. Top of pocket shall be level with bottom of armhole.
- A hook and pile closed patch pocket shall be 6" deep and run side seam to front seam with the top level with the bottom of the armhole. The top hem shall be turned under with the raw edge turned under and topstitched 1/16" gauge. The hem shall finish 3/4" wide with a 5/8" by 4" piece of hook tape sewn to the hem, centered side-to-side. A corresponding piece of pile tape shall be sewn on the right front lining. The pocket shall be made from lining fabric.
- I-\*** **Back:** The back shall be plain and shall be 32 1/4" long at center back from collar seam to bottom edge.
- II-\*** **Back:** The back shall be plain and shall be 29 1/4" long at center back from collar seam to bottom edge.
- I-\*** **Sleeves:** The sleeves shall be raglan, one-piece construction. The sleeve head shall be 6 1/4" wide at the collar seam and shall be 32 1/2" long from collar seam to bottom edge. The sleeve shall be fully lined. The bottom edge of the shell fabric shall be turned up to the inside with the raw edge turned under and topstitched 1/8" gauge. The hem shall finish 3/4" wide. A 5 1/4" by 5/8" wide piece of pile tape shall be sewn to the outside of the sleeve on the hem located 2 1/8" from the closing seam and 1/8" up from the sleeve bottom. A 4 1/4" long tab shall be sewn into the closing seam at the bottom of the sleeve. The tab shall be 2" wide at the closing seam and 1 1/4" wide at the end with the diagonal edge up and the straight edge at the bottom in alignment with the bottom edge of the sleeve. A 2" by 5/8" piece of hook tape shall be sewn to the inside of the tape 1/8" from the bottom edge and 1/8" from the tab end. The tab shall be one piece construction from shell fabric and shall be edge stitched 1/4" gauge.
- II-\*** **Sleeves:** The sleeves shall be raglan, one-piece construction. The sleeve head shall be 5 1/4" wide at the collar seam and shall be 30 1/4" long from collar seam to bottom edge. The sleeve shall be fully lined. The bottom edge of the shell fabric shall be turned up to the inside with the raw edge turned under and topstitched 1/8" gauge. The hem shall finish 5/8" wide. A 5" by 5/8" wide piece of pile tape shall be sewn to the outside of the sleeve on the hem located 2" from the closing seam and 1/4" up from the sleeve bottom. A 4 1/4" long tab shall be sewn into the closing seam at the bottom of the sleeve. The tab shall be 2" wide at the closing seam and 1 1/4" wide at the end with the diagonal edge up and the straight edge at the bottom in alignment with the bottom edge of the sleeve. A 2" by 5/8" piece of hook tape shall be sewn to the inside of the tape 1/8" from the bottom edge and 1/4" from the tab end. The tab shall be one piece construction from shell fabric and shall be edge stitched 1/4" gauge.
- \*** **Hangerloop:** A 3/8" wide black nylon tape hanger loop 2" long shall be sewn into the inside collar seam at center back.

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- I-\***      **Bottoms:** The bottom outer shell fabric shall be turned up to the inside with raw edge turned under and edge stitched 1/16" gauge. The hem shall be 3/4" wide.
- II-\***      **Bottoms:** The bottom outer shell fabric shall be turned up to the inside with raw edge turned under and edge stitched 1/8" gauge. The hem shall be 1" wide.
- I-\***      **Patch:** The organizations shoulder patch shall be sewn securely in the center of the left sleeve with the top edge 7" below the collar seam. (raglan sleeves) The patch shall be sewn with inconspicuous stitching using thread to match the emblem border color.
- II-\***      **Patch:** The organizations shoulder patch shall be sewn securely in the center of the left sleeve with the top edge 7 1/4" below the collar seam. (raglan sleeves) The patch shall be sewn with inconspicuous stitching using thread to match the emblem border color.

### Sizes and Measurements

#### Finished Dimensions

**Sizes:**    Men:     Regular S-XXL Long S-XL  
              Female: Regular XS-XL

## ATTACHMENT D

### C387 Parka, Male, Green Nylon Hip Length, Insulated

Specifications are identical for the following other components:

F385 Parka, Male, Brown Nylon Waist Length, Insulated  
F386 Parka, Male, Brown Nylon Hip Length, Insulated  
C388 Parka, Male, Green Nylon Waist Length, Insulated  
F389 Parka, Female, Brown Nylon Waist Length, Insulated  
F390 Parka, Female, Brown Nylon Hip Length, Insulated  
C391 Parka, Female, Green Nylon Hip Length, Insulated  
C392 Parka, Female, Green Nylon Waist Length, Insulated

**Sample Size:** All dimensions are based on sizes Male-Large, Female-Medium

### GENERAL DESCRIPTION

The garment is a hip or waist length parka with a front storm flap, a two-way zipper, and snap closures. The Parka has an adjustable waist cord, two outside hand pockets, and two inside pockets. The parka is fully lined and insulated.

**TYPE ITEMS:** \*--All Parkas      Type I—Male      Type II—Female

**CLASSIFICATION**      COE # (M/F)

*	All Parkas	*
A	Hip Length	C387/391
B	Waist Length	C388/392

		FWS # (M/F)
*	All Parkas	*
C	Hip Length	F386/390
D	Waist Length	F385/389

### SALIENT CHARACTERISTICS

#### Components

Type-Class

- \*-A,B      **Basic Material:** The material shall be 100% Taslan Nylon, 2-ply, with 3M Thinsulate--Forest Green.
- \*-C,D      **Basic Material:** The material shall be 100% Taslan Nylon, 2-ply, with 3M Thinsulate--dark brown.
- \*      **Linings:** The parka shall be fully lined. The lining shall be sewn to the insulation batting with parallel rows of stitching spaced 5 ¼" apart.
- \*      **Thread:** All thread except topstitching shall be minimum size 60/36. Topstitching thread shall be minimum size 40/20.
- \*      **Snap:** The snaps shall be 24 ligne with an enamel finish outer shell matching the color of the garment.

## ATTACHMENT D

**I-\***      **Zippers:** The front zipper shall be a plastic scoop type, size 8 or equal. The zipper shall have single pull, double sliders with long tabs. The sliders shall be located mouth-to-mouth. The tape shall be  $\frac{3}{4}$ " wide. The pocket zippers shall be plastic continuous element style, size 5 or equal. The zippers shall be 7" long with long tab single pull sliders. The tape shall be  $\frac{5}{8}$ " wide.

**II-\***      **Zippers:** The front zipper shall be a plastic scoop type, size 8 or equal. The zipper shall have single pull, double sliders with long tabs. The sliders shall be located mouth-to-mouth. The tape shall be  $\frac{3}{4}$ " wide. The pocket zippers shall be plastic continuous element style, size 5 or equal. The zippers shall be 6" long with long tab single pull sliders. The tape shall be  $\frac{5}{8}$ " wide.

**\***      **Labels:** See general reference and requirements sheet.

### General Instructions

**\***      **Stitching:** All stitching shall be lockstitch type 301. Sleeves shall be set to front and back panels with full fell seams,  $\frac{1}{4}$ " gauge.

### Detail Design Characteristics

**I-\***      **Collar:** The collar and collar lining shall be made from outer shell fabric and interlined with the 200 gram insulation fabric. The top of the collar shall align with the top of the front weather flaps. Collar front edges shall be  $3\frac{1}{2}$ " wide and  $2\frac{3}{4}$ " wide at center back. Collar top shall be edge stitched  $\frac{1}{4}$ " gauge and shall be 23" across the top. Four male snaps shall be located 1" up from the collar seam with two located  $2\frac{1}{8}$ " and two located  $6\frac{3}{4}$ " to either side of the back centerline. A knitted collar shall be sewn into the inner collar seam and shall be 18" wide. The knitted collar shall be 2" high at center back and taper off to each side. A  $\frac{3}{8}$ " wide black nylon tape hanger loop, 2" long, shall be sewn into the inside collar seam at center back.

**II-\***      **Collar:** The collar and collar lining shall be made from outer shell fabric and interlined with the 200 gram insulation fabric. The top of the collar shall align with the top of the front weather flaps. Collar front edges shall be  $3\frac{7}{8}$ " wide and 3" wide at center back. Collar top shall be edge stitched  $\frac{1}{4}$ " gauge and shall be  $20\frac{1}{2}$ " across the top. Four male snaps shall be located  $\frac{3}{4}$ " up from the collar seam with two located  $1\frac{3}{4}$ " and two located  $5\frac{1}{4}$ " to either side of the back centerline. A knitted collar shall be sewn into the inner collar seam and shall be  $15\frac{1}{2}$ " wide. The knitted collar shall be 2" high at center back and taper off to each side. A  $\frac{3}{8}$ " wide black nylon tape hanger loop, 2" long, shall be sewn into the inside collar seam at center back.

**I-A,C**      **Front:** The front shall have a two-way zippered closure from 1" below the top of the collar to within 2" of the bottom edge. The front length shall be a minimum of  $32\frac{1}{2}$ " long. The front zipper shall be 29" long. The under (right) flap shall be 1" wide and  $32\frac{1}{2}$ " long and shall be sewn between the lining and the zipper tape and shell fabric on the right front. The outer (left) flap shall be  $2\frac{1}{8}$ " wide and  $32\frac{1}{2}$ " long and shall be sewn between the outer shell and the left zipper tape and lining fabric. Both flaps shall be interlined with a suitable non-woven fabric and edge stitched  $\frac{1}{4}$ " gauge. Seven female snaps shall be located on the outer flap  $\frac{3}{4}$ " from the front edge. Top and bottom snaps shall be  $\frac{5}{8}$ " from the panel top and bottom edges. The snap second from the top shall be  $4\frac{1}{8}$ " from the top edge with the remaining four snaps spaced equally between the second and bottom snaps. Male snaps shall be located  $1\frac{3}{4}$ " from the front edge of the under flap in locations corresponding to the female snaps. Half chest shall be 25" wide.

## ATTACHMENT D

- I-B,D Front:** The front shall have a two-way zippered closure from 1" below the top of the collar to within 2" of the bottom edge. The front length shall be a minimum of 26" long. The front zipper shall be 24" long. The under (right) flap shall be 1" wide and 26" long and shall be sewn between the lining and the zipper tape and shell fabric on the right front. The outer (left) flap shall be 2 1/8" wide and 26" long and shall be sewn between the outer shell and the left zipper tape and lining fabric. Both flaps shall be interlined with a suitable non-woven fabric and edge stitched 1/4" gauge. Seven female snaps shall be located on the outer flap 3/4" from the front edge. Top and bottom snaps shall be 5/8" from the panel top and bottom edges. The snap second from the top shall be 4 1/8" from the top edge with the remaining four snaps spaced equally between the second and bottom snaps. Male snaps shall be located 1 3/4" from the front edge of the under flap in locations corresponding to the female snaps. Half chest shall be 25" wide.
- II-A,C Front:** The front shall have a two-way zippered closure from 1" below the top of the collar to within 2 1/2" of the bottom edge. The front length shall be a minimum of 31" long. The front zipper shall be 28 1/2" long. The under (left) flap shall be 1" wide and 31" long and shall be sewn between the lining and the zipper tape and shell fabric on the left front. The outer (right) flap shall be 2 1/8" wide and 31" long and shall be sewn between the outer shell and the right zipper tape and lining fabric. Both flaps shall be interlined with a suitable non-woven fabric and edge stitched 1/4" gauge. Seven female snaps shall be located on the outer flap 5/8" from the front edge. Top and bottom snaps shall be 5/8" from the panel top and bottom edges. The snap second from the top shall be 4 1/4" from the top edge with the remaining four snaps spaced equally between the second and bottom snaps. Male snaps shall be located 1 3/4" from the front edge of the under flap in locations corresponding to the female snaps. Half chest shall be 23" wide.
- II-B,D Front:** The front shall have a two-way zippered closure from 1" below the top of the collar to within 2" of the bottom edge. The front length shall be a minimum of 24" long. The front zipper shall be 22" long. The under (left) flap shall be 1" wide and 24" long and shall be sewn between the lining and the zipper tape and shell fabric on the left front. The outer (right) flap shall be 2 1/8" wide and 24" long and shall be sewn between the outer shell and the right zipper tape and lining fabric. Both flaps shall be interlined with a suitable non-woven fabric and edge stitched 1/4" gauge. Six female snaps shall be located on the outer flap 5/8" from the front edge. Top and bottom snaps shall be 5/8" from the panel top and bottom edges. The snap second from the top shall be 5" from the top edge with the remaining four snaps spaced equally between the second and bottom snaps. Male snaps shall be located 1 3/4" from the front edge of the under flap in locations corresponding to the female snaps. Half chest shall be 22" wide.
- \*-A,C Drawstring:** A concealed drawstring tunnel shall be located at the waistline. The tunnel shall be formed by sewing a strip of fabric to the backside of the front and back outer shell panels. Top and bottom edges shall be turned under and topstitched 1/8" gauge. The tunnel shall finish 1" wide and run the circumference of the parka beginning and ending at front zipper tape/weather flap seams. A 3/16" diameter chrome plated black eyelet shall be located in the lining fabric within 2" of each front edge of the liner/weather flap seam. A 1/8" diameter nylon covered elastic cord shall enter through the tunnel and exit through the eyelets. The cord shall be 3" longer than each eyelet when in a fully relax state. The cord shall be knotted 1" from each end and shall have a 7/32" diameter Barreloc attached to each end close to each eyelet.
- I-A,B Badge Reinforcement & Name Tab:** Badge and name tabs shall be constructed from the outershell fabric using seam type EF p-2 with lock stitching. The tabs shall finish 1/2" wide with 3/32" topstitching. The tab ends shall be turned under 1/4" and attached to the fronts with 3 rows of running tacks 1/16" from the folded edge. The badge tab shall be 2" long with two eyelets centered, 15/16" apart. The badge tab shall be located on the left front in vertical alignment with the inner edge 5 1/2" from the left front edge and the top edge 4 1/2" below the front shoulder seam. The name tab shall be 3" long with two eyelets centered, 1 7/8" apart. The name tab shall be located on the right front in horizontal alignment with the inner edge 3 1/2" from the front zipper tape and the top edge 7 1/2" below the front shoulder seam.

## ATTACHMENT D

- I-C,D      Badge Reinforcement & Name Tab:** Badge and name tabs shall be constructed from the outershell fabric using seam type EF p-2 with lock stitching. The tabs shall finish  $\frac{3}{4}$ " wide with  $\frac{3}{32}$ " topstitching. The tab ends shall be turned under  $\frac{1}{4}$ " and attached to the fronts with 3 rows of running tacks  $\frac{1}{16}$ " from the folded edge. The badge tab shall be 2" long with two eyelets centered,  $\frac{15}{16}$ " apart. The badge tab shall be located on the left front in vertical alignment with the inner edge  $5\frac{1}{2}$ " from the left front edge and the top edge  $4\frac{1}{2}$ " below the front shoulder seam. The name tab shall be 3" long with two eyelets centered,  $1\frac{7}{8}$ " apart. The name tab shall be located on the right front in horizontal alignment with the inner edge  $3\frac{1}{2}$ " from the front zipper tape and the top edge  $7\frac{1}{2}$ " below the front shoulder seam.
- II-A,B      Badge Reinforcement & Name Tab:** Badge and name tabs shall be constructed from the outershell fabric using seam type EF p-2 with lock stitching. The tabs shall finish  $\frac{1}{2}$ " wide with  $\frac{3}{32}$ " topstitching. The tab ends shall be turned under  $\frac{1}{4}$ " and attached to the fronts with 3 rows of running tacks  $\frac{1}{16}$ " from the folded edge. The badge tab shall be 2" long with two eyelets centered,  $\frac{15}{16}$ " apart. The badge tab shall be located on the left front in vertical alignment with the inner edge  $3\frac{7}{8}$ " from the left front edge and the top edge 5" below the front shoulder seam. The name tab shall be 3" long with two eyelets centered,  $1\frac{7}{8}$ " apart. The name tab shall be located on the right front in horizontal alignment with the inner edge 3" from the front zipper tape and the top edge 5" below the front shoulder seam.
- II-C,D      Badge Reinforcement & Name Tab:** Badge and name tabs shall be constructed from the outershell fabric using seam type EF p-2 with lock stitching. The tabs shall finish  $\frac{3}{4}$ " wide with  $\frac{3}{32}$ " topstitching. The tab ends shall be turned under  $\frac{1}{4}$ " and attached to the fronts with 3 rows of running tacks  $\frac{1}{16}$ " from the folded edge. The badge tab shall be 2" long with two eyelets centered,  $\frac{15}{16}$ " apart. The badge tab shall be located on the left front in vertical alignment with the inner edge  $3\frac{7}{8}$ " from the left front edge and the top edge 5" below the front shoulder seam. The name tab shall be 3" long with two eyelets centered,  $1\frac{7}{8}$ " apart. The name tab shall be located on the right front in horizontal alignment with the inner edge 3" from the front zipper tape and the top edge 5" below the front shoulder seam.
- I-A,C      Pockets:** A zippered, single welt, hand warmer slash pocket shall be located on each front. The bottom of the pocket opening shall be  $3\frac{1}{2}$ " above the bottom front hem and  $2\frac{1}{4}$ " from the side seam. The top of the pocket opening shall be  $10\frac{1}{2}$ " from the bottom hem and  $3\frac{1}{8}$ " from the side seam. The opening shall be 7" long. The welt shall be 7" long and  $\frac{5}{8}$ " wide. Welt edges shall be topstitched  $\frac{1}{16}$ " gauge. Pocket lining shall be outer shell fabric and shall be  $6\frac{3}{4}$ " deep at center.
- A zippered patch pocket shall be located under the left front. The pocket shall be  $7\frac{1}{4}$ " wide by  $7\frac{3}{4}$ " deep with a 6" opening. The pocket shall be made from lining fabric. The zipper shall be centered  $1\frac{1}{2}$ " below top edge of pocket. Opening in lining shall be 6" long and  $\frac{3}{4}$ " wide with inside edges turned under and topstitched  $\frac{1}{16}$ " gauge. Top of pocket shall be level with bottom of armhole.
- A hook and pile closed patch pocket shall be 8" deep and run side seam to front seam with the top level with the bottom of the armhole. The top hem shall be turned under with the raw edge turned under and topstitched  $\frac{1}{16}$ " gauge. The hem shall finish  $\frac{3}{4}$ " wide with a  $\frac{5}{8}$ " by 4" piece of hook tape sewn to the hem, centered side-to-side. A corresponding piece of pile tape shall be sewn on the right front lining. The pocket shall be made from lining fabric.
- I-B,D      Pockets:** A zippered, single welt, hand warmer slash pocket shall be located on each front. The bottom of the pocket opening shall be 4" above the bottom front hem and  $2\frac{1}{4}$ " from the side seam. The top of the pocket opening shall be 11" from the bottom hem and 4" from the side seam. The opening shall be 7" long. The welt shall be 7" long and  $\frac{5}{8}$ " wide. Welt edges shall be topstitched  $\frac{1}{16}$ " gauge. Pocket lining shall be outer shell fabric and shall be  $6\frac{3}{4}$ " deep at center.



## ATTACHMENT D

A zippered patch pocket shall be located under the left front. The pocket shall be 7 ¾" wide by 7 7/8" deep with a 6" opening. The pocket shall be made from lining fabric. The zipper shall be centered 1 ½" below top edge of pocket. Opening in lining shall be 6 1/8" long and ¾" wide with inside edges turned under and topstitched 1/8" gauge. Top of pocket shall be level with bottom of armhole.

A hook and pile closed patch pocket shall be 10 ½" deep and run side seam to front seam with the top level with the bottom of the armhole. The top hem shall be turned under with the raw edge turned under and topstitched 1/16" gauge. The hem shall finish ¾" wide with a 5/8" by 4" piece of hook tape sewn to the hem, centered side-to-side. A corresponding piece of pile tape shall be sewn on the right front lining. The pocket shall be made from lining fabric.

**II-A,C      Pockets:** A zippered, single welt, hand warmer slash pocket shall be located on each front. The bottom of the pocket opening shall be 3" above the bottom front hem and 2 5/8" from the side seam. The top of the pocket opening shall be 10" from the bottom hem and 3 ¼" from the side seam. The opening shall be 6 ¾" long. The welt shall be 7" long and 5/8" wide. Welt edges shall be topstitched 1/16" gauge. Pocket lining shall be outer shell fabric and shall be 6" deep at center.

A zippered patch pocket shall be located under the left front. The pocket shall be 7 ¼" wide by 8" deep with a 6" opening. The pocket shall be made from lining fabric. The zipper shall be centered 1 ½" below top edge of pocket. Opening in lining shall be 6 1/8" long and ¾" wide with inside edges turned under and topstitched 1/16" gauge. Top of pocket shall be level with bottom of armhole.

A hook and pile closed patch pocket shall be 6 ¼" deep and run side seam to front seam with the top level with the bottom of the armhole. The top hem shall be turned under with the raw edge turned under and topstitched 1/16" gauge. The hem shall finish ¾" wide with a 5/8" by 4" piece of hook tape sewn to the hem, centered side-to-side. A corresponding piece of pile tape shall be sewn on the right front lining. The pocket shall be made from lining fabric.

**II-B,D      Pockets:** A zippered, single welt, hand warmer slash pocket shall be located on each front. The bottom of the pocket opening shall be 3 ¾" above the bottom front hem and 2 5/8" from the side seam. The top of the pocket opening shall be 10 ½" from the bottom hem and 4" from the side seam. The opening shall be 6 7/8" long. The welt shall be 6 7/8" long and 5/8" wide. Welt edges shall be topstitched 1/16" gauge. Pocket lining shall be outer shell fabric and shall be 6" deep at center.

A zippered patch pocket shall be located under the left front. The pocket shall be 7 ½" wide by 8" deep with a 6" opening. The pocket shall be made from lining fabric. The zipper shall be centered 1 5/8" below top edge of pocket. Opening in lining shall be 6" long and ¾" wide with inside edges turned under and topstitched 1/16" gauge. Top of pocket shall be level with bottom of armhole.

A hook and pile closed patch pocket shall be 8 ½" deep and run side seam to front seam with the top level with the bottom of the armhole. The top hem shall be turned under with the raw edge turned under and topstitched 1/8" gauge. The hem shall finish ¾" wide with a 5/8" by 4" piece of hook tape sewn to the hem, centered side-to-side. A corresponding piece of pile tape shall be sewn on the right front lining. The pocket shall be made from lining fabric.

**I-A,C      Back:** The back shall be plain and shall be 33" long at center back from collar seam to bottom edge.

**I-B,D      Back:** The back shall be plain and shall be 27" long at center back from collar seam to bottom edge.

**II-A,C      Back:** The back shall be plain and shall be 29" long at center back from collar seam to bottom edge.

**II-B,D      Back:** The back shall be plain and shall be 23" long at center back from collar seam to bottom edge.

## ATTACHMENT D

- I-A,C**      **Sleeves:** The sleeves shall be raglan, one piece construction. The sleeve head shall be 6 ¼" wide at the collar seam and shall be 33" long from collar seam to bottom edge. Sleeves shall be interlined with 200 gram insulation and lined to within 3" of bottom. Outer shell fabric shall extend up inside the sleeves 3" and sewn to the lining. The bottom edge of the sleeve shall be edge stitched 5/8" gauge.
- I-B,D**      **Sleeves:** The sleeves shall be raglan, one-piece construction. The sleeve head shall be 6 ¼" wide at the collar seam and shall be 32" long from collar seam to bottom edge. Sleeves shall be interlined with 200 gram insulation and lined to within 3" of bottom. Outer shell fabric shall extend up inside the sleeves 3" and sewn to the lining. The bottom edge of the sleeve shall be edge stitched 5/8" gauge.
- II-A,C**      **Sleeves:** The sleeves shall be raglan, one piece construction. The sleeve head shall be 5" wide at the collar seam and shall be 30 ½" long from collar seam to bottom edge. Sleeves shall be interlined with 200 gram insulation and lined to within 3" of bottom. Outer shell fabric shall extend up inside the sleeves 3" and sewn to the lining. The bottom edge of the sleeve shall be edge stitched 5/8" gauge.
- II-B,D**      **Sleeves:** The sleeves shall be raglan, one piece construction. The sleeve head shall be 5 ¼" wide at the collar seam and shall be 31" long from collar seam to bottom edge. Sleeves shall be interlined with 200 gram insulation and lined to within 3" of bottom. Outer shell fabric shall extend up inside the sleeves 3" and sewn to the lining. The bottom edge of the sleeve shall be edge stitched 5/8" gauge.
- \***            **Cuffs:** A 3" wide knitted cuff shall be sewn into the lining/outershell seam.
- I-A,C**      **Bottoms:** The bottom outer shell fabric shall be turned up to the inside with raw edge turned under and edge stitched 1/8" gauge. The hem shall be 3/4" wide.
- I-B,D**      **Bottoms:** The bottom shall be finished with a 2" wide waistband. Elastic 2" wide by 11" long shall be sewn inside. Each side of the waistband shall start 6 ¼" from each front edge. The elastic shall be stitched to the waistband and lining 1" from the bottom edge. The center back and front sections of the waistband shall be insulated. The center back section shall finish 9 ¾" wide. The waistband and waistband lining shall be outer shell fabric. The bottom of front and back sections shall be edgestitched, ¼" gauge.
- II-A,C**      **Bottoms:** The bottom outer shell fabric shall be turned up to the inside with raw edge turned under and edge stitched 1/8" gauge. The hem shall be 3/4" wide.
- II-B,D**      **Bottoms:** The bottom shall be finished with a 2" wide waistband. Elastic 2" wide by 8" long shall be sewn inside. Each side of the waistband shall start 6 3/8" from each front edge. The elastic shall be stitched to the waistband and lining 1" from the bottom edge. The center back and front sections of the waistband shall be insulated. The center back section shall finish 9 ½" wide. The waistband and waistband lining shall be outer shell fabric. The bottom of front and back sections shall be edgestitched, ¼" gauge.
- \***            **Patch:** The organizations ensign shoulder patch shall be sewn securely in the center of the left sleeve with the top edge approximately 7" below the collar seam. (Raglan sleeves) The patch shall to be sewn with inconspicuous stitching using red thread to match the emblem border color.
- \***            **Patch:** The Office of Surface Mining Inspector Badge patch shall be sewn securely in the center of the left pocket area. The patch shall be sewn with matching thread and attached so that the edges do not roll up after washing.

## ATTACHMENT D

### Sizes and Measurements

#### Finished Dimensions

**I-A,C**      **Sizes:** S - XXXL in regular, M-XXL in long

**I-B,D**      **Sizes:** S – XXXL in regular, M-XXL in long

**II-\***      **Sizes:** S, M, L, XL

## ATTACHMENT D

### C388 Parka, Male, Green Nylon Waist Length, Insulated

Specifications are identical for the following other components:

F385 Parka, Male, Brown Nylon Waist Length, Insulated  
F386 Parka, Male, Brown Nylon Hip Length, Insulated  
C387 Parka, Male, Green Nylon Hip Length, Insulated  
F389 Parka, Female, Brown Nylon Waist Length, Insulated  
F390 Parka, Female, Brown Nylon Hip Length, Insulated  
C391 Parka, Female, Green Nylon Hip Length, Insulated  
C392 Parka, Female, Green Nylon Waist Length, Insulated

**Sample Size:** All dimensions are based on sizes Male-Large, Female-Medium

### GENERAL DESCRIPTION

The garment is a hip or waist length parka with a front storm flap, a two-way zipper, and snap closures. The Parka has an adjustable waist cord, two outside hand pockets, and two inside pockets. The parka is fully lined and insulated.

**TYPE ITEMS:** \*--All Parkas      Type I—Male      Type II—Female

**CLASSIFICATION**      COE # (M/F)

*	All Parkas	*
A	Hip Length	387/391
B	Waist Length	388/392

		FWS # (M/F)
*	All Parkas	*
C	Hip Length	386/390
D	Waist Length	385/389

### SALIENT CHARACTERISTICS

#### Components

Type-Class

\*-A,B      **Basic Material:** The material shall be 100% Taslan Nylon, 2-ply, with 3M Thinsulate--Forest Green.

\*-C,D      **Basic Material:** The material shall be 100% Taslan Nylon, 2-ply, with 3M Thinsulate--dark brown.

\*      **Linings:** The parka shall be fully lined. The lining shall be sewn to the insulation batting with parallel rows of stitching spaced 5 ¼" apart.

\*      **Thread:** All thread except topstitching shall be minimum size 60/36. Topstitching thread shall be minimum size 40/20.

\*      **Snap:** The snaps shall be 24 ligne with an enamel finish outer shell matching the color of the garment.

## ATTACHMENT D

- I-\***      **Zippers:** The front zipper shall be a plastic scoop type, size 8 or equal. The zipper shall have single pull, double sliders with long tabs. The sliders shall be located mouth-to-mouth. The tape shall be  $\frac{3}{4}$ " wide. The pocket zippers shall be plastic continuous element style, size 5 or equal. The zippers shall be 7" long with long tab single pull sliders. The tape shall be  $\frac{5}{8}$ " wide.
- II-\***      **Zippers:** The front zipper shall be a plastic scoop type, size 8 or equal. The zipper shall have single pull, double sliders with long tabs. The sliders shall be located mouth-to-mouth. The tape shall be  $\frac{3}{4}$ " wide. The pocket zippers shall be plastic continuous element style, size 5 or equal. The zippers shall be 6" long with long tab single pull sliders. The tape shall be  $\frac{5}{8}$ " wide.
- \***          **Labels:** See general reference and requirements sheet.

### General Instructions

- \***          **Stitching:** All stitching shall be lockstitch type 301. Sleeves shall be set to front and back panels with full fell seams,  $\frac{1}{4}$ " gauge.

### Detail Design Characteristics

- I-\***      **Collar:** The collar and collar lining shall be made from outer shell fabric and interlined with the 200 gram insulation fabric. The top of the collar shall align with the top of the front weather flaps. Collar front edges shall be  $3\frac{1}{2}$ " wide and  $2\frac{3}{4}$ " wide at center back. Collar top shall be edge stitched  $\frac{1}{4}$ " gauge and shall be 23" across the top. Four male snaps shall be located 1" up from the collar seam with two located  $2\frac{1}{8}$ " and two located  $6\frac{3}{4}$ " to either side of the back centerline. A knitted collar shall be sewn into the inner collar seam and shall be 18" wide. The knitted collar shall be 2" high at center back and taper off to each side. A  $\frac{3}{8}$ " wide black nylon tape hanger loop, 2" long, shall be sewn into the inside collar seam at center back.
- II-\***      **Collar:** The collar and collar lining shall be made from outer shell fabric and interlined with the 200 gram insulation fabric. The top of the collar shall align with the top of the front weather flaps. Collar front edges shall be  $3\frac{7}{8}$ " wide and 3" wide at center back. Collar top shall be edge stitched  $\frac{1}{4}$ " gauge and shall be  $20\frac{1}{2}$ " across the top. Four male snaps shall be located  $\frac{3}{4}$ " up from the collar seam with two located  $1\frac{3}{4}$ " and two located  $5\frac{1}{4}$ " to either side of the back centerline. A knitted collar shall be sewn into the inner collar seam and shall be  $15\frac{1}{2}$ " wide. The knitted collar shall be 2" high at center back and taper off to each side. A  $\frac{3}{8}$ " wide black nylon tape hanger loop, 2" long, shall be sewn into the inside collar seam at center back.
- I-A,C**      **Front:** The front shall have a two-way zippered closure from 1" below the top of the collar to within 2" of the bottom edge. The front length shall be a minimum of  $32\frac{1}{2}$ " long. The front zipper shall be 29" long. The under (right) flap shall be 1" wide and  $32\frac{1}{2}$ " long and shall be sewn between the lining and the zipper tape and shell fabric on the right front. The outer (left) flap shall be  $2\frac{1}{8}$ " wide and  $32\frac{1}{2}$ " long and shall be sewn between the outer shell and the left zipper tape and lining fabric. Both flaps shall be interlined with a suitable non-woven fabric and edge stitched  $\frac{1}{4}$ " gauge. Seven female snaps shall be located on the outer flap  $\frac{3}{4}$ " from the front edge. Top and bottom snaps shall be  $\frac{5}{8}$ " from the panel top and bottom edges. The snap second from the top shall be  $4\frac{1}{8}$ " from the top edge with the remaining four snaps spaced equally between the second and bottom snaps. Male snaps shall be located  $1\frac{3}{4}$ " from the front edge of the under flap in locations corresponding to the female snaps. Half chest shall be 25" wide.

## ATTACHMENT D

- I-B,D Front:** The front shall have a two-way zippered closure from 1" below the top of the collar to within 2" of the bottom edge. The front length shall be a minimum of 26" long. The front zipper shall be 24" long. The under (right) flap shall be 1" wide and 26" long and shall be sewn between the lining and the zipper tape and shell fabric on the right front. The outer (left) flap shall be 2 1/8" wide and 26" long and shall be sewn between the outer shell and the left zipper tape and lining fabric. Both flaps shall be interlined with a suitable non-woven fabric and edge stitched 1/4" gauge. Seven female snaps shall be located on the outer flap 3/4" from the front edge. Top and bottom snaps shall be 5/8" from the panel top and bottom edges. The snap second from the top shall be 4 1/8" from the top edge with the remaining four snaps spaced equally between the second and bottom snaps. Male snaps shall be located 1 3/4" from the front edge of the under flap in locations corresponding to the female snaps. Half chest shall be 25" wide.
- II-A,C Front:** The front shall have a two-way zippered closure from 1" below the top of the collar to within 2 1/2" of the bottom edge. The front length shall be a minimum of 31" long. The front zipper shall be 28 1/2" long. The under (left) flap shall be 1" wide and 31" long and shall be sewn between the lining and the zipper tape and shell fabric on the left front. The outer (right) flap shall be 2 1/8" wide and 31" long and shall be sewn between the outer shell and the right zipper tape and lining fabric. Both flaps shall be interlined with a suitable non-woven fabric and edge stitched 1/4" gauge. Seven female snaps shall be located on the outer flap 5/8" from the front edge. Top and bottom snaps shall be 5/8" from the panel top and bottom edges. The snap second from the top shall be 4 1/4" from the top edge with the remaining four snaps spaced equally between the second and bottom snaps. Male snaps shall be located 1 3/4" from the front edge of the under flap in locations corresponding to the female snaps. Half chest shall be 23" wide.
- II-B,D Front:** The front shall have a two-way zippered closure from 1" below the top of the collar to within 2" of the bottom edge. The front length shall be a minimum of 24" long. The front zipper shall be 22" long. The under (left) flap shall be 1" wide and 24" long and shall be sewn between the lining and the zipper tape and shell fabric on the left front. The outer (right) flap shall be 2 1/8" wide and 24" long and shall be sewn between the outer shell and the right zipper tape and lining fabric. Both flaps shall be interlined with a suitable non-woven fabric and edge stitched 1/4" gauge. Six female snaps shall be located on the outer flap 5/8" from the front edge. Top and bottom snaps shall be 5/8" from the panel top and bottom edges. The snap second from the top shall be 5" from the top edge with the remaining four snaps spaced equally between the second and bottom snaps. Male snaps shall be located 1 3/4" from the front edge of the under flap in locations corresponding to the female snaps. Half chest shall be 22" wide.
- \*-A,C Drawstring:** A concealed drawstring tunnel shall be located at the waistline. The tunnel shall be formed by sewing a strip of fabric to the backside of the front and back outer shell panels. Top and bottom edges shall be turned under and topstitched 1/8" gauge. The tunnel shall finish 1" wide and run the circumference of the parka beginning and ending at front zipper tape/weather flap seams. A 3/16" diameter chrome plated black eyelet shall be located in the lining fabric within 2" of each front edge of the liner/weather flap seam. A 1/8" diameter nylon covered elastic cord shall enter through the tunnel and exit through the eyelets. The cord shall be 3" longer than each eyelet when in a fully relax state. The cord shall be knotted 1" from each end and shall have a 7/32" diameter Barreloc attached to each end close to each eyelet.
- I-A,B Badge Reinforcement & Name Tab:** Badge and name tabs shall be constructed from the outershell fabric using seam type EF p-2 with lock stitching. The tabs shall finish 1/2" wide with 3/32" topstitching. The tab ends shall be turned under 1/4" and attached to the fronts with 3 rows of running tacks 1/16" from the folded edge. The badge tab shall be 2" long with two eyelets centered, 15/16" apart. The badge tab shall be located on the left front in vertical alignment with the inner edge 5 1/2" from the left front edge and the top edge 4 1/2" below the front shoulder seam. The name tab shall be 3" long with two eyelets centered, 1 7/8" apart. The name tab shall be located on the right front in horizontal alignment with the inner edge 3 1/2" from the front zipper tape and the top edge 7 1/2" below the front shoulder seam.

## ATTACHMENT D

- I-C,D      Badge Reinforcement & Name Tab:** Badge and name tabs shall be constructed from the outershell fabric using seam type EF p-2 with lock stitching. The tabs shall finish  $\frac{3}{4}$ " wide with  $\frac{3}{32}$ " topstitching. The tab ends shall be turned under  $\frac{1}{4}$ " and attached to the fronts with 3 rows of running tacks  $\frac{1}{16}$ " from the folded edge. The badge tab shall be 2" long with two eyelets centered,  $\frac{15}{16}$ " apart. The badge tab shall be located on the left front in vertical alignment with the inner edge  $5\frac{1}{2}$ " from the left front edge and the top edge  $4\frac{1}{2}$ " below the front shoulder seam. The name tab shall be 3" long with two eyelets centered,  $1\frac{7}{8}$ " apart. The name tab shall be located on the right front in horizontal alignment with the inner edge  $3\frac{1}{2}$ " from the front zipper tape and the top edge  $7\frac{1}{2}$ " below the front shoulder seam.
- II-A,B      Badge Reinforcement & Name Tab:** Badge and name tabs shall be constructed from the outershell fabric using seam type EF p-2 with lock stitching. The tabs shall finish  $\frac{1}{2}$ " wide with  $\frac{3}{32}$ " topstitching. The tab ends shall be turned under  $\frac{1}{4}$ " and attached to the fronts with 3 rows of running tacks  $\frac{1}{16}$ " from the folded edge. The badge tab shall be 2" long with two eyelets centered,  $\frac{15}{16}$ " apart. The badge tab shall be located on the left front in vertical alignment with the inner edge  $3\frac{7}{8}$ " from the left front edge and the top edge 5" below the front shoulder seam. The name tab shall be 3" long with two eyelets centered,  $1\frac{7}{8}$ " apart. The name tab shall be located on the right front in horizontal alignment with the inner edge 3" from the front zipper tape and the top edge 5" below the front shoulder seam.
- II-C,D      Badge Reinforcement & Name Tab:** Badge and name tabs shall be constructed from the outershell fabric using seam type EF p-2 with lock stitching. The tabs shall finish  $\frac{3}{4}$ " wide with  $\frac{3}{32}$ " topstitching. The tab ends shall be turned under  $\frac{1}{4}$ " and attached to the fronts with 3 rows of running tacks  $\frac{1}{16}$ " from the folded edge. The badge tab shall be 2" long with two eyelets centered,  $\frac{15}{16}$ " apart. The badge tab shall be located on the left front in vertical alignment with the inner edge  $3\frac{7}{8}$ " from the left front edge and the top edge 5" below the front shoulder seam. The name tab shall be 3" long with two eyelets centered,  $1\frac{7}{8}$ " apart. The name tab shall be located on the right front in horizontal alignment with the inner edge 3" from the front zipper tape and the top edge 5" below the front shoulder seam.
- I-A,C      Pockets:** A zippered, single welt, hand warmer slash pocket shall be located on each front. The bottom of the pocket opening shall be  $3\frac{1}{2}$ " above the bottom front hem and  $2\frac{1}{4}$ " from the side seam. The top of the pocket opening shall be  $10\frac{1}{2}$ " from the bottom hem and  $3\frac{1}{8}$ " from the side seam. The opening shall be 7" long. The welt shall be 7" long and  $\frac{5}{8}$ " wide. Welt edges shall be topstitched  $\frac{1}{16}$ " gauge. Pocket lining shall be outer shell fabric and shall be  $6\frac{3}{4}$ " deep at center.
- A zippered patch pocket shall be located under the left front. The pocket shall be  $7\frac{1}{4}$ " wide by  $7\frac{3}{4}$ " deep with a 6" opening. The pocket shall be made from lining fabric. The zipper shall be centered  $1\frac{1}{2}$ " below top edge of pocket. Opening in lining shall be 6" long and  $\frac{3}{4}$ " wide with inside edges turned under and topstitched  $\frac{1}{16}$ " gauge. Top of pocket shall be level with bottom of armhole.
- A hook and pile closed patch pocket shall be 8" deep and run side seam to front seam with the top level with the bottom of the armhole. The top hem shall be turned under with the raw edge turned under and topstitched  $\frac{1}{16}$ " gauge. The hem shall finish  $\frac{3}{4}$ " wide with a  $\frac{5}{8}$ " by 4" piece of hook tape sewn to the hem, centered side-to-side. A corresponding piece of pile tape shall be sewn on the right front lining. The pocket shall be made from lining fabric.
- I-B,D      Pockets:** A zippered, single welt, hand warmer slash pocket shall be located on each front. The bottom of the pocket opening shall be 4" above the bottom front hem and  $2\frac{1}{4}$ " from the side seam. The top of the pocket opening shall be 11" from the bottom hem and 4" from the side seam. The opening shall be 7" long. The welt shall be 7" long and  $\frac{5}{8}$ " wide. Welt edges shall be topstitched  $\frac{1}{16}$ " gauge. Pocket lining shall be outer shell fabric and shall be  $6\frac{3}{4}$ " deep at center.
- A zippered patch pocket shall be located under the left front. The pocket shall be  $7\frac{3}{4}$ " wide by  $7\frac{7}{8}$ " deep with a 6" opening. The pocket shall be made from lining fabric. The zipper shall be centered  $1\frac{1}{2}$ " below top edge of pocket. Opening in lining shall be  $6\frac{1}{8}$ " long and  $\frac{3}{4}$ " wide with inside edges turned under and topstitched  $\frac{1}{8}$ " gauge. Top of pocket shall be level with bottom of armhole.

## ATTACHMENT D

A hook and pile closed patch pocket shall be 10 ½" deep and run side seam to front seam with the top level with the bottom of the armhole. The top hem shall be turned under with the raw edge turned under and topstitched 1/16" gauge. The hem shall finish ¾" wide with a 5/8" by 4" piece of hook tape sewn to the hem, centered side-to-side. A corresponding piece of pile tape shall be sewn on the right front lining. The pocket shall be made from lining fabric.

**II-A,C Pockets:** A zippered, single welt, hand warmer slash pocket shall be located on each front. The bottom of the pocket opening shall be 3" above the bottom front hem and 2 5/8" from the side seam. The top of the pocket opening shall be 10" from the bottom hem and 3 ¼" from the side seam. The opening shall be 6 ¾" long. The welt shall be 7" long and 5/8" wide. Welt edges shall be topstitched 1/16" gauge. Pocket lining shall be outer shell fabric and shall be 6" deep at center.

A zippered patch pocket shall be located under the left front. The pocket shall be 7 ¼" wide by 8" deep with a 6" opening. The pocket shall be made from lining fabric. The zipper shall be centered 1 ½" below top edge of pocket. Opening in lining shall be 6 1/8" long and ¾" wide with inside edges turned under and topstitched 1/16" gauge. Top of pocket shall be level with bottom of armhole.

A hook and pile closed patch pocket shall be 6 ¼" deep and run side seam to front seam with the top level with the bottom of the armhole. The top hem shall be turned under with the raw edge turned under and topstitched 1/16" gauge. The hem shall finish ¾" wide with a 5/8" by 4" piece of hook tape sewn to the hem, centered side-to-side. A corresponding piece of pile tape shall be sewn on the right front lining. The pocket shall be made from lining fabric.

**II-B,D Pockets:** A zippered, single welt, hand warmer slash pocket shall be located on each front. The bottom of the pocket opening shall be 3 ¾" above the bottom front hem and 2 5/8" from the side seam. The top of the pocket opening shall be 10 ½" from the bottom hem and 4" from the side seam. The opening shall be 6 7/8" long. The welt shall be 6 7/8" long and 5/8" wide. Welt edges shall be topstitched 1/16" gauge. Pocket lining shall be outer shell fabric and shall be 6" deep at center.

A zippered patch pocket shall be located under the left front. The pocket shall be 7 ½" wide by 8" deep with a 6" opening. The pocket shall be made from lining fabric. The zipper shall be centered 1 5/8" below top edge of pocket. Opening in lining shall be 6" long and ¾" wide with inside edges turned under and topstitched 1/16" gauge. Top of pocket shall be level with bottom of armhole.

A hook and pile closed patch pocket shall be 8 ½" deep and run side seam to front seam with the top level with the bottom of the armhole. The top hem shall be turned under with the raw edge turned under and topstitched 1/8" gauge. The hem shall finish ¾" wide with a 5/8" by 4" piece of hook tape sewn to the hem, centered side-to-side. A corresponding piece of pile tape shall be sewn on the right front lining. The pocket shall be made from lining fabric.

**I-A,C Back:** The back shall be plain and shall be 33" long at center back from collar seam to bottom edge.

**I-B,D Back:** The back shall be plain and shall be 27" long at center back from collar seam to bottom edge.

**II-A,C Back:** The back shall be plain and shall be 29" long at center back from collar seam to bottom edge.

**II-B,D Back:** The back shall be plain and shall be 23" long at center back from collar seam to bottom edge.

**I-A,C Sleeves:** The sleeves shall be raglan, one piece construction. The sleeve head shall be 6 ¼" wide at the collar seam and shall be 33" long from collar seam to bottom edge. Sleeves shall be interlined with 200 gram insulation and lined to within 3" of bottom. Outer shell fabric shall extend up inside the sleeves 3" and sewn to the lining. The bottom edge of the sleeve shall be edge stitched 5/8" gauge.



## ATTACHMENT D

- I-B,D      Sleeves:** The sleeves shall be raglan, one-piece construction. The sleeve head shall be 6 ¼" wide at the collar seam and shall be 32" long from collar seam to bottom edge. Sleeves shall be interlined with 200 gram insulation and lined to within 3" of bottom. Outer shell fabric shall extend up inside the sleeves 3" and sewn to the lining. The bottom edge of the sleeve shall be edge stitched 5/8" gauge.
- II-A,C      Sleeves:** The sleeves shall be raglan, one piece construction. The sleeve head shall be 5" wide at the collar seam and shall be 30 ½" long from collar seam to bottom edge. Sleeves shall be interlined with 200 gram insulation and lined to within 3" of bottom. Outer shell fabric shall extend up inside the sleeves 3" and sewn to the lining. The bottom edge of the sleeve shall be edge stitched 5/8" gauge.
- II-B,D      Sleeves:** The sleeves shall be raglan, one piece construction. The sleeve head shall be 5 ¼" wide at the collar seam and shall be 31" long from collar seam to bottom edge. Sleeves shall be interlined with 200 gram insulation and lined to within 3" of bottom. Outer shell fabric shall extend up inside the sleeves 3" and sewn to the lining. The bottom edge of the sleeve shall be edge stitched 5/8" gauge.
- \*      Cuffs:** A 3" wide knitted cuff shall be sewn into the lining/outershell seam.
- I-A,C      Bottoms:** The bottom outer shell fabric shall be turned up to the inside with raw edge turned under and edge stitched 1/8" gauge. The hem shall be 3/4" wide.
- I-B,D      Bottoms:** The bottom shall be finished with a 2" wide waistband. Elastic 2" wide by 11" long shall be sewn inside. Each side of the waistband shall start 6 ¼" from each front edge. The elastic shall be stitched to the waistband and lining 1" from the bottom edge. The center back and front sections of the waistband shall be insulated. The center back section shall finish 9 ¾" wide. The waistband and waistband lining shall be outer shell fabric. The bottom of front and back sections shall be edgestitched, ¼" gauge.
- II-A,C      Bottoms:** The bottom outer shell fabric shall be turned up to the inside with raw edge turned under and edge stitched 1/8" gauge. The hem shall be 3/4" wide.
- II-B,D      Bottoms:** The bottom shall be finished with a 2" wide waistband. Elastic 2" wide by 8" long shall be sewn inside. Each side of the waistband shall start 6 3/8" from each front edge. The elastic shall be stitched to the waistband and lining 1" from the bottom edge. The center back and front sections of the waistband shall be insulated. The center back section shall finish 9 ½" wide. The waistband and waistband lining shall be outer shell fabric. The bottom of front and back sections shall be edgestitched, ¼" gauge.
- \*      Patch:** The organizations ensign shoulder patch shall be sewn securely in the center of the left sleeve with the top edge approximately 7" below the collar seam. (Raglan sleeves) The patch shall to be sewn with inconspicuous stitching using red thread to match the emblem border color.

### Sizes and Measurements

#### Finished Dimensions

- I-A,C      Sizes:** S - XXXL in regular, M-XXL in long
- I-B,D      Sizes:** S – XXXL in regular, M-XXL in long
- II-\*      Sizes:** S, M, L, XL

## ATTACHMENT D

### C391 Parka, Female, Green Nylon Hip Length, Insulated

Specifications are identical for the following other components:

F385 Parka, Male, Brown Nylon Waist Length, Insulated  
F386 Parka, Male, Brown Nylon Hip Length, Insulated  
C387 Parka, Male, Green Nylon Hip Length, Insulated  
C388 Parka, Male, Green Nylon Waist Length, Insulated  
F389 Parka, Female, Brown Nylon Waist Length, Insulated  
F390 Parka, Female, Brown Nylon Hip Length, Insulated  
C392 Parka, Female, Green Nylon Waist Length, Insulated

**Sample Size:** All dimensions are based on sizes Male-Large, Female-Medium

### GENERAL DESCRIPTION

The garment is a hip or waist length parka with a front storm flap, a two-way zipper, and snap closures. The Parka has an adjustable waist cord, two outside hand pockets, and two inside pockets. The parka is fully lined and insulated.

**TYPE ITEMS:** \*--All Parkas      Type I—Male      Type II—Female

**CLASSIFICATION**      COE # (M/F)

*	All Parkas	*
A	Hip Length	C387/391
B	Waist Length	C388/392

		FWS # (M/F)
*	All Parkas	*
C	Hip Length	F386/390
D	Waist Length	F385/389

### SALIENT CHARACTERISTICS

#### Components

Type-Class

\*-A,B      **Basic Material:** The material shall be 100% Taslan Nylon, 2-ply, with 3M Thinsulate--Forest Green.

\*-C,D      **Basic Material:** The material shall be 100% Taslan Nylon, 2-ply, with 3M Thinsulate--dark brown.

\*      **Linings:** The parka shall be fully lined. The lining shall be sewn to the insulation batting with parallel rows of stitching spaced 5 ¼" apart.

\*      **Thread:** All thread except topstitching shall be minimum size 60/36. Topstitching thread shall be minimum size 40/20.

\*      **Snap:** The snaps shall be 24 ligne with an enamel finish outer shell matching the color of the garment.

## ATTACHMENT D

- I-\***      **Zippers:** The front zipper shall be a plastic scoop type, size 8 or equal. The zipper shall have single pull, double sliders with long tabs. The sliders shall be located mouth-to-mouth. The tape shall be  $\frac{3}{4}$ " wide. The pocket zippers shall be plastic continuous element style, size 5 or equal. The zippers shall be 7" long with long tab single pull sliders. The tape shall be  $\frac{5}{8}$ " wide.
- II-\***      **Zippers:** The front zipper shall be a plastic scoop type, size 8 or equal. The zipper shall have single pull, double sliders with long tabs. The sliders shall be located mouth-to-mouth. The tape shall be  $\frac{3}{4}$ " wide. The pocket zippers shall be plastic continuous element style, size 5 or equal. The zippers shall be 6" long with long tab single pull sliders. The tape shall be  $\frac{5}{8}$ " wide.
- \***          **Labels:** See general reference and requirements sheet.

### General Instructions

- \***          **Stitching:** All stitching shall be lockstitch type 301. Sleeves shall be set to front and back panels with full fell seams,  $\frac{1}{4}$ " gauge.

### Detail Design Characteristics

- I-\***          **Collar:** The collar and collar lining shall be made from outer shell fabric and interlined with the 200 gram insulation fabric. The top of the collar shall align with the top of the front weather flaps. Collar front edges shall be  $3\frac{1}{2}$ " wide and  $2\frac{3}{4}$ " wide at center back. Collar top shall be edge stitched  $\frac{1}{4}$ " gauge and shall be 23" across the top. Four male snaps shall be located 1" up from the collar seam with two located  $2\frac{1}{8}$ " and two located  $6\frac{3}{4}$ " to either side of the back centerline. A knitted collar shall be sewn into the inner collar seam and shall be 18" wide. The knitted collar shall be 2" high at center back and taper off to each side. A  $\frac{3}{8}$ " wide black nylon tape hanger loop, 2" long, shall be sewn into the inside collar seam at center back.
- II-\***          **Collar:** The collar and collar lining shall be made from outer shell fabric and interlined with the 200 gram insulation fabric. The top of the collar shall align with the top of the front weather flaps. Collar front edges shall be  $3\frac{7}{8}$ " wide and 3" wide at center back. Collar top shall be edge stitched  $\frac{1}{4}$ " gauge and shall be  $20\frac{1}{2}$ " across the top. Four male snaps shall be located  $\frac{3}{4}$ " up from the collar seam with two located  $1\frac{3}{4}$ " and two located  $5\frac{1}{4}$ " to either side of the back centerline. A knitted collar shall be sewn into the inner collar seam and shall be  $15\frac{1}{2}$ " wide. The knitted collar shall be 2" high at center back and taper off to each side. A  $\frac{3}{8}$ " wide black nylon tape hanger loop, 2" long, shall be sewn into the inside collar seam at center back.
- I-A,C**      **Front:** The front shall have a two-way zippered closure from 1" below the top of the collar to within 2" of the bottom edge. The front length shall be a minimum of  $32\frac{1}{2}$ " long. The front zipper shall be 29" long. The under (right) flap shall be 1" wide and  $32\frac{1}{2}$ " long and shall be sewn between the lining and the zipper tape and shell fabric on the right front. The outer (left) flap shall be  $2\frac{1}{8}$ " wide and  $32\frac{1}{2}$ " long and shall be sewn between the outer shell and the left zipper tape and lining fabric. Both flaps shall be interlined with a suitable non-woven fabric and edge stitched  $\frac{1}{4}$ " gauge. Seven female snaps shall be located on the outer flap  $\frac{3}{4}$ " from the front edge. Top and bottom snaps shall be  $\frac{5}{8}$ " from the panel top and bottom edges. The snap second from the top shall be  $4\frac{1}{8}$ " from the top edge with the remaining four snaps spaced equally between the second and bottom snaps. Male snaps shall be located  $1\frac{3}{4}$ " from the front edge of the under flap in locations corresponding to the female snaps. Half chest shall be 25" wide.

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- I-B,D Front:** The front shall have a two-way zippered closure from 1" below the top of the collar to within 2" of the bottom edge. The front length shall be a minimum of 26" long. The front zipper shall be 24" long. The under (right) flap shall be 1" wide and 26" long and shall be sewn between the lining and the zipper tape and shell fabric on the right front. The outer (left) flap shall be 2 1/8" wide and 26" long and shall be sewn between the outer shell and the left zipper tape and lining fabric. Both flaps shall be interlined with a suitable non-woven fabric and edge stitched 1/4" gauge. Seven female snaps shall be located on the outer flap 3/4" from the front edge. Top and bottom snaps shall be 5/8" from the panel top and bottom edges. The snap second from the top shall be 4 1/8" from the top edge with the remaining four snaps spaced equally between the second and bottom snaps. Male snaps shall be located 1 3/4" from the front edge of the under flap in locations corresponding to the female snaps. Half chest shall be 25" wide.
- II-A,C Front:** The front shall have a two-way zippered closure from 1" below the top of the collar to within 2 1/2" of the bottom edge. The front length shall be a minimum of 31" long. The front zipper shall be 28 1/2" long. The under (left) flap shall be 1" wide and 31" long and shall be sewn between the lining and the zipper tape and shell fabric on the left front. The outer (right) flap shall be 2 1/8" wide and 31" long and shall be sewn between the outer shell and the right zipper tape and lining fabric. Both flaps shall be interlined with a suitable non-woven fabric and edge stitched 1/4" gauge. Seven female snaps shall be located on the outer flap 5/8" from the front edge. Top and bottom snaps shall be 5/8" from the panel top and bottom edges. The snap second from the top shall be 4 1/4" from the top edge with the remaining four snaps spaced equally between the second and bottom snaps. Male snaps shall be located 1 3/4" from the front edge of the under flap in locations corresponding to the female snaps. Half chest shall be 23" wide.
- II-B,D Front:** The front shall have a two-way zippered closure from 1" below the top of the collar to within 2" of the bottom edge. The front length shall be a minimum of 24" long. The front zipper shall be 22" long. The under (left) flap shall be 1" wide and 24" long and shall be sewn between the lining and the zipper tape and shell fabric on the left front. The outer (right) flap shall be 2 1/8" wide and 24" long and shall be sewn between the outer shell and the right zipper tape and lining fabric. Both flaps shall be interlined with a suitable non-woven fabric and edge stitched 1/4" gauge. Six female snaps shall be located on the outer flap 5/8" from the front edge. Top and bottom snaps shall be 5/8" from the panel top and bottom edges. The snap second from the top shall be 5" from the top edge with the remaining four snaps spaced equally between the second and bottom snaps. Male snaps shall be located 1 3/4" from the front edge of the under flap in locations corresponding to the female snaps. Half chest shall be 22" wide.
- \*-A,C Drawstring:** A concealed drawstring tunnel shall be located at the waistline. The tunnel shall be formed by sewing a strip of fabric to the backside of the front and back outer shell panels. Top and bottom edges shall be turned under and topstitched 1/8" gauge. The tunnel shall finish 1" wide and run the circumference of the parka beginning and ending at front zipper tape/weather flap seams. A 3/16" diameter chrome plated black eyelet shall be located in the lining fabric within 2" of each front edge of the liner/weather flap seam. A 1/8" diameter nylon covered elastic cord shall enter through the tunnel and exit through the eyelets. The cord shall be 3" longer than each eyelet when in a fully relax state. The cord shall be knotted 1" from each end and shall have a 7/32" diameter Barreloc attached to each end close to each eyelet.
- I-A,B Badge Reinforcement & Name Tab:** Badge and name tabs shall be constructed from the outershell fabric using seam type EF p-2 with lock stitching. The tabs shall finish 1/2" wide with 3/32" topstitching. The tab ends shall be turned under 1/4" and attached to the fronts with 3 rows of running tacks 1/16" from the folded edge. The badge tab shall be 2" long with two eyelets centered, 15/16" apart. The badge tab shall be located on the left front in vertical alignment with the inner edge 5 1/2" from the left front edge and the top edge 4 1/2" below the front shoulder seam. The name tab shall be 3" long with two eyelets centered, 1 7/8" apart. The name tab shall be located on the right front in horizontal alignment with the inner edge 3 1/2" from the front zipper tape and the top edge 7 1/2" below the front shoulder seam.

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- I-C,D      Badge Reinforcement & Name Tab:** Badge and name tabs shall be constructed from the outershell fabric using seam type EF p-2 with lock stitching. The tabs shall finish  $\frac{3}{4}$ " wide with  $\frac{3}{32}$ " topstitching. The tab ends shall be turned under  $\frac{1}{4}$ " and attached to the fronts with 3 rows of running tacks  $\frac{1}{16}$ " from the folded edge. The badge tab shall be 2" long with two eyelets centered,  $\frac{15}{16}$ " apart. The badge tab shall be located on the left front in vertical alignment with the inner edge  $5\frac{1}{2}$ " from the left front edge and the top edge  $4\frac{1}{2}$ " below the front shoulder seam. The name tab shall be 3" long with two eyelets centered,  $1\frac{7}{8}$ " apart. The name tab shall be located on the right front in horizontal alignment with the inner edge  $3\frac{1}{2}$ " from the front zipper tape and the top edge  $7\frac{1}{2}$ " below the front shoulder seam.
- II-A,B      Badge Reinforcement & Name Tab:** Badge and name tabs shall be constructed from the outershell fabric using seam type EF p-2 with lock stitching. The tabs shall finish  $\frac{1}{2}$ " wide with  $\frac{3}{32}$ " topstitching. The tab ends shall be turned under  $\frac{1}{4}$ " and attached to the fronts with 3 rows of running tacks  $\frac{1}{16}$ " from the folded edge. The badge tab shall be 2" long with two eyelets centered,  $\frac{15}{16}$ " apart. The badge tab shall be located on the left front in vertical alignment with the inner edge  $3\frac{7}{8}$ " from the left front edge and the top edge 5" below the front shoulder seam. The name tab shall be 3" long with two eyelets centered,  $1\frac{7}{8}$ " apart. The name tab shall be located on the right front in horizontal alignment with the inner edge 3" from the front zipper tape and the top edge 5" below the front shoulder seam.
- II-C,D      Badge Reinforcement & Name Tab:** Badge and name tabs shall be constructed from the outershell fabric using seam type EF p-2 with lock stitching. The tabs shall finish  $\frac{3}{4}$ " wide with  $\frac{3}{32}$ " topstitching. The tab ends shall be turned under  $\frac{1}{4}$ " and attached to the fronts with 3 rows of running tacks  $\frac{1}{16}$ " from the folded edge. The badge tab shall be 2" long with two eyelets centered,  $\frac{15}{16}$ " apart. The badge tab shall be located on the left front in vertical alignment with the inner edge  $3\frac{7}{8}$ " from the left front edge and the top edge 5" below the front shoulder seam. The name tab shall be 3" long with two eyelets centered,  $1\frac{7}{8}$ " apart. The name tab shall be located on the right front in horizontal alignment with the inner edge 3" from the front zipper tape and the top edge 5" below the front shoulder seam.
- I-A,C      Pockets:** A zippered, single welt, hand warmer slash pocket shall be located on each front. The bottom of the pocket opening shall be  $3\frac{1}{2}$ " above the bottom front hem and  $2\frac{1}{4}$ " from the side seam. The top of the pocket opening shall be  $10\frac{1}{2}$ " from the bottom hem and  $3\frac{1}{8}$ " from the side seam. The opening shall be 7" long. The welt shall be 7" long and  $\frac{5}{8}$ " wide. Welt edges shall be topstitched  $\frac{1}{16}$ " gauge. Pocket lining shall be outer shell fabric and shall be  $6\frac{3}{4}$ " deep at center.
- A zippered patch pocket shall be located under the left front. The pocket shall be  $7\frac{1}{4}$ " wide by  $7\frac{3}{4}$ " deep with a 6" opening. The pocket shall be made from lining fabric. The zipper shall be centered  $1\frac{1}{2}$ " below top edge of pocket. Opening in lining shall be 6" long and  $\frac{3}{4}$ " wide with inside edges turned under and topstitched  $\frac{1}{16}$ " gauge. Top of pocket shall be level with bottom of armhole.
- A hook and pile closed patch pocket shall be 8" deep and run side seam to front seam with the top level with the bottom of the armhole. The top hem shall be turned under with the raw edge turned under and topstitched  $\frac{1}{16}$ " gauge. The hem shall finish  $\frac{3}{4}$ " wide with a  $\frac{5}{8}$ " by 4" piece of hook tape sewn to the hem, centered side-to-side. A corresponding piece of pile tape shall be sewn on the right front lining. The pocket shall be made from lining fabric.
- I-B,D      Pockets:** A zippered, single welt, hand warmer slash pocket shall be located on each front. The bottom of the pocket opening shall be 4" above the bottom front hem and  $2\frac{1}{4}$ " from the side seam. The top of the pocket opening shall be 11" from the bottom hem and 4" from the side seam. The opening shall be 7" long. The welt shall be 7" long and  $\frac{5}{8}$ " wide. Welt edges shall be topstitched  $\frac{1}{16}$ " gauge. Pocket lining shall be outer shell fabric and shall be  $6\frac{3}{4}$ " deep at center.
- A zippered patch pocket shall be located under the left front. The pocket shall be  $7\frac{3}{4}$ " wide by  $7\frac{7}{8}$ " deep with a 6" opening. The pocket shall be made from lining fabric. The zipper shall be centered  $1\frac{1}{2}$ " below top edge of pocket. Opening in lining shall be  $6\frac{1}{8}$ " long and  $\frac{3}{4}$ " wide with inside edges turned under and topstitched  $\frac{1}{8}$ " gauge. Top of pocket shall be level with bottom of armhole.

## ATTACHMENT D

A hook and pile closed patch pocket shall be 10 ½" deep and run side seam to front seam with the top level with the bottom of the armhole. The top hem shall be turned under with the raw edge turned under and topstitched 1/16" gauge. The hem shall finish ¾" wide with a 5/8" by 4" piece of hook tape sewn to the hem, centered side-to-side. A corresponding piece of pile tape shall be sewn on the right front lining. The pocket shall be made from lining fabric.

**II-A,C**     **Pockets:** A zippered, single welt, hand warmer slash pocket shall be located on each front. The bottom of the pocket opening shall be 3" above the bottom front hem and 2 5/8" from the side seam. The top of the pocket opening shall be 10" from the bottom hem and 3 ¼" from the side seam. The opening shall be 6 ¾" long. The welt shall be 7" long and 5/8" wide. Welt edges shall be topstitched 1/16" gauge. Pocket lining shall be outer shell fabric and shall be 6" deep at center.

A zippered patch pocket shall be located under the left front. The pocket shall be 7 ¼" wide by 8" deep with a 6" opening. The pocket shall be made from lining fabric. The zipper shall be centered 1 ½" below top edge of pocket. Opening in lining shall be 6 1/8" long and ¾" wide with inside edges turned under and topstitched 1/16" gauge. Top of pocket shall be level with bottom of armhole.

A hook and pile closed patch pocket shall be 6 ¼" deep and run side seam to front seam with the top level with the bottom of the armhole. The top hem shall be turned under with the raw edge turned under and topstitched 1/16" gauge. The hem shall finish ¾" wide with a 5/8" by 4" piece of hook tape sewn to the hem, centered side-to-side. A corresponding piece of pile tape shall be sewn on the right front lining. The pocket shall be made from lining fabric.

**II-B,D**     **Pockets:** A zippered, single welt, hand warmer slash pocket shall be located on each front. The bottom of the pocket opening shall be 3 ¾" above the bottom front hem and 2 5/8" from the side seam. The top of the pocket opening shall be 10 ½" from the bottom hem and 4" from the side seam. The opening shall be 6 7/8" long. The welt shall be 6 7/8" long and 5/8" wide. Welt edges shall be topstitched 1/16" gauge. Pocket lining shall be outer shell fabric and shall be 6" deep at center.

A zippered patch pocket shall be located under the left front. The pocket shall be 7 ½" wide by 8" deep with a 6" opening. The pocket shall be made from lining fabric. The zipper shall be centered 1 5/8" below top edge of pocket. Opening in lining shall be 6" long and ¾" wide with inside edges turned under and topstitched 1/16" gauge. Top of pocket shall be level with bottom of armhole.

A hook and pile closed patch pocket shall be 8 ½" deep and run side seam to front seam with the top level with the bottom of the armhole. The top hem shall be turned under with the raw edge turned under and topstitched 1/8" gauge. The hem shall finish ¾" wide with a 5/8" by 4" piece of hook tape sewn to the hem, centered side-to-side. A corresponding piece of pile tape shall be sewn on the right front lining. The pocket shall be made from lining fabric.

**I-A,C**     **Back:** The back shall be plain and shall be 33" long at center back from collar seam to bottom edge.

**I-B,D**     **Back:** The back shall be plain and shall be 27" long at center back from collar seam to bottom edge.

**II-A,C**     **Back:** The back shall be plain and shall be 29" long at center back from collar seam to bottom edge.

**II-B,D**     **Back:** The back shall be plain and shall be 23" long at center back from collar seam to bottom edge.

**I-A,C**     **Sleeves:** The sleeves shall be raglan, one piece construction. The sleeve head shall be 6 ¼" wide at the collar seam and shall be 33" long from collar seam to bottom edge. Sleeves shall be interlined with 200 gram insulation and lined to within 3" of bottom. Outer shell fabric shall extend up inside the sleeves 3" and sewn to the lining. The bottom edge of the sleeve shall be edge stitched 5/8" gauge.

## ATTACHMENT D

- I-B,D      Sleeves:** The sleeves shall be raglan, one-piece construction. The sleeve head shall be 6 ¼" wide at the collar seam and shall be 32" long from collar seam to bottom edge. Sleeves shall be interlined with 200 gram insulation and lined to within 3" of bottom. Outer shell fabric shall extend up inside the sleeves 3" and sewn to the lining. The bottom edge of the sleeve shall be edge stitched 5/8" gauge.
- II-A,C      Sleeves:** The sleeves shall be raglan, one piece construction. The sleeve head shall be 5" wide at the collar seam and shall be 30 ½" long from collar seam to bottom edge. Sleeves shall be interlined with 200 gram insulation and lined to within 3" of bottom. Outer shell fabric shall extend up inside the sleeves 3" and sewn to the lining. The bottom edge of the sleeve shall be edge stitched 5/8" gauge.
- II-B,D      Sleeves:** The sleeves shall be raglan, one piece construction. The sleeve head shall be 5 ¼" wide at the collar seam and shall be 31" long from collar seam to bottom edge. Sleeves shall be interlined with 200 gram insulation and lined to within 3" of bottom. Outer shell fabric shall extend up inside the sleeves 3" and sewn to the lining. The bottom edge of the sleeve shall be edge stitched 5/8" gauge.
- \*      Cuffs:** A 3" wide knitted cuff shall be sewn into the lining/outershell seam.
- I-A,C      Bottoms:** The bottom outer shell fabric shall be turned up to the inside with raw edge turned under and edge stitched 1/8" gauge. The hem shall be 3/4" wide.
- I-B,D      Bottoms:** The bottom shall be finished with a 2" wide waistband. Elastic 2" wide by 11" long shall be sewn inside. Each side of the waistband shall start 6 ¼" from each front edge. The elastic shall be stitched to the waistband and lining 1" from the bottom edge. The center back and front sections of the waistband shall be insulated. The center back section shall finish 9 ¾" wide. The waistband and waistband lining shall be outer shell fabric. The bottom of front and back sections shall be edgestitched, ¼" gauge.
- II-A,C      Bottoms:** The bottom outer shell fabric shall be turned up to the inside with raw edge turned under and edge stitched 1/8" gauge. The hem shall be 3/4" wide.
- II-B,D      Bottoms:** The bottom shall be finished with a 2" wide waistband. Elastic 2" wide by 8" long shall be sewn inside. Each side of the waistband shall start 6 3/8" from each front edge. The elastic shall be stitched to the waistband and lining 1" from the bottom edge. The center back and front sections of the waistband shall be insulated. The center back section shall finish 9 ½" wide. The waistband and waistband lining shall be outer shell fabric. The bottom of front and back sections shall be edgestitched, ¼" gauge.
- \*      Patch:** The organizations ensign shoulder patch shall be sewn securely in the center of the left sleeve with the top edge approximately 7" below the collar seam. (Raglan sleeves) The patch shall to be sewn with inconspicuous stitching using red thread to match the emblem border color.

### Sizes and Measurements

#### Finished Dimensions

- I-A,C      Sizes:** S - XXXL in regular, M-XXL in long
- I-B,D      Sizes:** S – XXXL in regular, M-XXL in long
- II-\*      Sizes:** S, M, L, XL

## ATTACHMENT D

### C392 Parka, Female, Green Nylon Waist Length, Insulated

Specifications are identical for the following other components:

F385 Parka, Male, Brown Nylon Waist Length, Insulated  
F386 Parka, Male, Brown Nylon Hip Length, Insulated  
C387 Parka, Male, Green Nylon Hip Length, Insulated  
C388 Parka, Male, Green Nylon Waist Length, Insulated  
F389 Parka, Female, Brown Nylon Waist Length, Insulated  
F390 Parka, Female, Brown Nylon Hip Length, Insulated  
C391 Parka, Female, Green Nylon Hip Length, Insulated

**Sample Size:** All dimensions are based on sizes Male-Large, Female-Medium

### GENERAL DESCRIPTION

The garment is a hip or waist length parka with a front storm flap, a two-way zipper, and snap closures. The Parka has an adjustable waist cord, two outside hand pockets, and two inside pockets. The parka is fully lined and insulated.

**TYPE ITEMS:** \*--All Parkas      Type I—Male      Type II—Female

**CLASSIFICATION**      COE # (M/F)

*	All Parkas	*
A	Hip Length	C387/391
B	Waist Length	C388/392

		FWS # (M/F)
*	All Parkas	*
C	Hip Length	F386/390
D	Waist Length	F385/389

### SALIENT CHARACTERISTICS

#### Components

Type-Class

- \*-A,B      **Basic Material:** The material shall be 100% Taslan Nylon, 2-ply, with 3M Thinsulate--Forest Green.
- \*-C,D      **Basic Material:** The material shall be 100% Taslan Nylon, 2-ply, with 3M Thinsulate--dark brown.
- \*      **Linings:** The parka shall be fully lined. The lining shall be sewn to the insulation batting with parallel rows of stitching spaced 5 ¼" apart.
- \*      **Thread:** All thread except topstitching shall be minimum size 60/36. Topstitching thread shall be minimum size 40/20.
- \*      **Snap:** The snaps shall be 24 ligne with an enamel finish outer shell matching the color of the garment.



## ATTACHMENT D

- I-\***      **Zippers:** The front zipper shall be a plastic scoop type, size 8 or equal. The zipper shall have single pull, double sliders with long tabs. The sliders shall be located mouth-to-mouth. The tape shall be  $\frac{3}{4}$ " wide. The pocket zippers shall be plastic continuous element style, size 5 or equal. The zippers shall be 7" long with long tab single pull sliders. The tape shall be  $\frac{5}{8}$ " wide.
- II-\***      **Zippers:** The front zipper shall be a plastic scoop type, size 8 or equal. The zipper shall have single pull, double sliders with long tabs. The sliders shall be located mouth-to-mouth. The tape shall be  $\frac{3}{4}$ " wide. The pocket zippers shall be plastic continuous element style, size 5 or equal. The zippers shall be 6" long with long tab single pull sliders. The tape shall be  $\frac{5}{8}$ " wide.
- \***          **Labels:** See general reference and requirements sheet.

### General Instructions

- \***          **Stitching:** All stitching shall be lockstitch type 301. Sleeves shall be set to front and back panels with full fell seams,  $\frac{1}{4}$ " gauge.

### Detail Design Characteristics

- I-\***      **Collar:** The collar and collar lining shall be made from outer shell fabric and interlined with the 200 gram insulation fabric. The top of the collar shall align with the top of the front weather flaps. Collar front edges shall be  $3\frac{1}{2}$ " wide and  $2\frac{3}{4}$ " wide at center back. Collar top shall be edge stitched  $\frac{1}{4}$ " gauge and shall be 23" across the top. Four male snaps shall be located 1" up from the collar seam with two located  $2\frac{1}{8}$ " and two located  $6\frac{3}{4}$ " to either side of the back centerline. A knitted collar shall be sewn into the inner collar seam and shall be 18" wide. The knitted collar shall be 2" high at center back and taper off to each side. A  $\frac{3}{8}$ " wide black nylon tape hanger loop, 2" long, shall be sewn into the inside collar seam at center back.
- II-\***      **Collar:** The collar and collar lining shall be made from outer shell fabric and interlined with the 200 gram insulation fabric. The top of the collar shall align with the top of the front weather flaps. Collar front edges shall be  $3\frac{7}{8}$ " wide and 3" wide at center back. Collar top shall be edge stitched  $\frac{1}{4}$ " gauge and shall be  $20\frac{1}{2}$ " across the top. Four male snaps shall be located  $\frac{3}{4}$ " up from the collar seam with two located  $1\frac{3}{4}$ " and two located  $5\frac{1}{4}$ " to either side of the back centerline. A knitted collar shall be sewn into the inner collar seam and shall be  $15\frac{1}{2}$ " wide. The knitted collar shall be 2" high at center back and taper off to each side. A  $\frac{3}{8}$ " wide black nylon tape hanger loop, 2" long, shall be sewn into the inside collar seam at center back.
- I-A,C**      **Front:** The front shall have a two-way zippered closure from 1" below the top of the collar to within 2" of the bottom edge. The front length shall be a minimum of  $32\frac{1}{2}$ " long. The front zipper shall be 29" long. The under (right) flap shall be 1" wide and  $32\frac{1}{2}$ " long and shall be sewn between the lining and the zipper tape and shell fabric on the right front. The outer (left) flap shall be  $2\frac{1}{8}$ " wide and  $32\frac{1}{2}$ " long and shall be sewn between the outer shell and the left zipper tape and lining fabric. Both flaps shall be interlined with a suitable non-woven fabric and edge stitched  $\frac{1}{4}$ " gauge. Seven female snaps shall be located on the outer flap  $\frac{3}{4}$ " from the front edge. Top and bottom snaps shall be  $\frac{5}{8}$ " from the panel top and bottom edges. The snap second from the top shall be  $4\frac{1}{8}$ " from the top edge with the remaining four snaps spaced equally between the second and bottom snaps. Male snaps shall be located  $1\frac{3}{4}$ " from the front edge of the under flap in locations corresponding to the female snaps. Half chest shall be 25" wide.

## ATTACHMENT D

- I-B,D Front:** The front shall have a two-way zippered closure from 1" below the top of the collar to within 2" of the bottom edge. The front length shall be a minimum of 26" long. The front zipper shall be 24" long. The under (right) flap shall be 1" wide and 26" long and shall be sewn between the lining and the zipper tape and shell fabric on the right front. The outer (left) flap shall be 2 1/8" wide and 26" long and shall be sewn between the outer shell and the left zipper tape and lining fabric. Both flaps shall be interlined with a suitable non-woven fabric and edge stitched 1/4" gauge. Seven female snaps shall be located on the outer flap 3/4" from the front edge. Top and bottom snaps shall be 5/8" from the panel top and bottom edges. The snap second from the top shall be 4 1/8" from the top edge with the remaining four snaps spaced equally between the second and bottom snaps. Male snaps shall be located 1 3/4" from the front edge of the under flap in locations corresponding to the female snaps. Half chest shall be 25" wide.
- II-A,C Front:** The front shall have a two-way zippered closure from 1" below the top of the collar to within 2 1/2" of the bottom edge. The front length shall be a minimum of 31" long. The front zipper shall be 28 1/2" long. The under (left) flap shall be 1" wide and 31" long and shall be sewn between the lining and the zipper tape and shell fabric on the left front. The outer (right) flap shall be 2 1/8" wide and 31" long and shall be sewn between the outer shell and the right zipper tape and lining fabric. Both flaps shall be interlined with a suitable non-woven fabric and edge stitched 1/4" gauge. Seven female snaps shall be located on the outer flap 5/8" from the front edge. Top and bottom snaps shall be 5/8" from the panel top and bottom edges. The snap second from the top shall be 4 1/4" from the top edge with the remaining four snaps spaced equally between the second and bottom snaps. Male snaps shall be located 1 3/4" from the front edge of the under flap in locations corresponding to the female snaps. Half chest shall be 23" wide.
- II-B,D Front:** The front shall have a two-way zippered closure from 1" below the top of the collar to within 2" of the bottom edge. The front length shall be a minimum of 24" long. The front zipper shall be 22" long. The under (left) flap shall be 1" wide and 24" long and shall be sewn between the lining and the zipper tape and shell fabric on the left front. The outer (right) flap shall be 2 1/8" wide and 24" long and shall be sewn between the outer shell and the right zipper tape and lining fabric. Both flaps shall be interlined with a suitable non-woven fabric and edge stitched 1/4" gauge. Six female snaps shall be located on the outer flap 5/8" from the front edge. Top and bottom snaps shall be 5/8" from the panel top and bottom edges. The snap second from the top shall be 5" from the top edge with the remaining four snaps spaced equally between the second and bottom snaps. Male snaps shall be located 1 3/4" from the front edge of the under flap in locations corresponding to the female snaps. Half chest shall be 22" wide.
- \*-A,C Drawstring:** A concealed drawstring tunnel shall be located at the waistline. The tunnel shall be formed by sewing a strip of fabric to the backside of the front and back outer shell panels. Top and bottom edges shall be turned under and topstitched 1/8" gauge. The tunnel shall finish 1" wide and run the circumference of the parka beginning and ending at front zipper tape/weather flap seams. A 3/16" diameter chrome plated black eyelet shall be located in the lining fabric within 2" of each front edge of the liner/weather flap seam. A 1/8" diameter nylon covered elastic cord shall enter through the tunnel and exit through the eyelets. The cord shall be 3" longer than each eyelet when in a fully relax state. The cord shall be knotted 1" from each end and shall have a 7/32" diameter Barreloc attached to each end close to each eyelet.
- I-A,B Badge Reinforcement & Name Tab:** Badge and name tabs shall be constructed from the outershell fabric using seam type EF p-2 with lock stitching. The tabs shall finish 1/2" wide with 3/32" topstitching. The tab ends shall be turned under 1/4" and attached to the fronts with 3 rows of running tacks 1/16" from the folded edge. The badge tab shall be 2" long with two eyelets centered, 15/16" apart. The badge tab shall be located on the left front in vertical alignment with the inner edge 5 1/2" from the left front edge and the top edge 4 1/2" below the front shoulder seam. The name tab shall be 3" long with two eyelets centered, 1 7/8" apart. The name tab shall be located on the right front in horizontal alignment with the inner edge 3 1/2" from the front zipper tape and the top edge 7 1/2" below the front shoulder seam.

## ATTACHMENT D

- I-C,D      Badge Reinforcement & Name Tab:** Badge and name tabs shall be constructed from the outershell fabric using seam type EF p-2 with lock stitching. The tabs shall finish  $\frac{3}{4}$ " wide with  $\frac{3}{32}$ " topstitching. The tab ends shall be turned under  $\frac{1}{4}$ " and attached to the fronts with 3 rows of running tacks  $\frac{1}{16}$ " from the folded edge. The badge tab shall be 2" long with two eyelets centered,  $\frac{15}{16}$ " apart. The badge tab shall be located on the left front in vertical alignment with the inner edge  $5\frac{1}{2}$ " from the left front edge and the top edge  $4\frac{1}{2}$ " below the front shoulder seam. The name tab shall be 3" long with two eyelets centered,  $1\frac{7}{8}$ " apart. The name tab shall be located on the right front in horizontal alignment with the inner edge  $3\frac{1}{2}$ " from the front zipper tape and the top edge  $7\frac{1}{2}$ " below the front shoulder seam.
- II-A,B      Badge Reinforcement & Name Tab:** Badge and name tabs shall be constructed from the outershell fabric using seam type EF p-2 with lock stitching. The tabs shall finish  $\frac{1}{2}$ " wide with  $\frac{3}{32}$ " topstitching. The tab ends shall be turned under  $\frac{1}{4}$ " and attached to the fronts with 3 rows of running tacks  $\frac{1}{16}$ " from the folded edge. The badge tab shall be 2" long with two eyelets centered,  $\frac{15}{16}$ " apart. The badge tab shall be located on the left front in vertical alignment with the inner edge  $3\frac{7}{8}$ " from the left front edge and the top edge 5" below the front shoulder seam. The name tab shall be 3" long with two eyelets centered,  $1\frac{7}{8}$ " apart. The name tab shall be located on the right front in horizontal alignment with the inner edge 3" from the front zipper tape and the top edge 5" below the front shoulder seam.
- II-C,D      Badge Reinforcement & Name Tab:** Badge and name tabs shall be constructed from the outershell fabric using seam type EF p-2 with lock stitching. The tabs shall finish  $\frac{3}{4}$ " wide with  $\frac{3}{32}$ " topstitching. The tab ends shall be turned under  $\frac{1}{4}$ " and attached to the fronts with 3 rows of running tacks  $\frac{1}{16}$ " from the folded edge. The badge tab shall be 2" long with two eyelets centered,  $\frac{15}{16}$ " apart. The badge tab shall be located on the left front in vertical alignment with the inner edge  $3\frac{7}{8}$ " from the left front edge and the top edge 5" below the front shoulder seam. The name tab shall be 3" long with two eyelets centered,  $1\frac{7}{8}$ " apart. The name tab shall be located on the right front in horizontal alignment with the inner edge 3" from the front zipper tape and the top edge 5" below the front shoulder seam.
- I-A,C      Pockets:** A zippered, single welt, hand warmer slash pocket shall be located on each front. The bottom of the pocket opening shall be  $3\frac{1}{2}$ " above the bottom front hem and  $2\frac{1}{4}$ " from the side seam. The top of the pocket opening shall be  $10\frac{1}{2}$ " from the bottom hem and  $3\frac{1}{8}$ " from the side seam. The opening shall be 7" long. The welt shall be 7" long and  $\frac{5}{8}$ " wide. Welt edges shall be topstitched  $\frac{1}{16}$ " gauge. Pocket lining shall be outer shell fabric and shall be  $6\frac{3}{4}$ " deep at center.
- A zippered patch pocket shall be located under the left front. The pocket shall be  $7\frac{1}{4}$ " wide by  $7\frac{3}{4}$ " deep with a 6" opening. The pocket shall be made from lining fabric. The zipper shall be centered  $1\frac{1}{2}$ " below top edge of pocket. Opening in lining shall be 6" long and  $\frac{3}{4}$ " wide with inside edges turned under and topstitched  $\frac{1}{16}$ " gauge. Top of pocket shall be level with bottom of armhole.
- A hook and pile closed patch pocket shall be 8" deep and run side seam to front seam with the top level with the bottom of the armhole. The top hem shall be turned under with the raw edge turned under and topstitched  $\frac{1}{16}$ " gauge. The hem shall finish  $\frac{3}{4}$ " wide with a  $\frac{5}{8}$ " by 4" piece of hook tape sewn to the hem, centered side-to-side. A corresponding piece of pile tape shall be sewn on the right front lining. The pocket shall be made from lining fabric.
- I-B,D      Pockets:** A zippered, single welt, hand warmer slash pocket shall be located on each front. The bottom of the pocket opening shall be 4" above the bottom front hem and  $2\frac{1}{4}$ " from the side seam. The top of the pocket opening shall be 11" from the bottom hem and 4" from the side seam. The opening shall be 7" long. The welt shall be 7" long and  $\frac{5}{8}$ " wide. Welt edges shall be topstitched  $\frac{1}{16}$ " gauge. Pocket lining shall be outer shell fabric and shall be  $6\frac{3}{4}$ " deep at center.
- A zippered patch pocket shall be located under the left front. The pocket shall be  $7\frac{3}{4}$ " wide by  $7\frac{7}{8}$ " deep with a 6" opening. The pocket shall be made from lining fabric. The zipper shall be centered  $1\frac{1}{2}$ " below top edge of pocket. Opening in lining shall be  $6\frac{1}{8}$ " long and  $\frac{3}{4}$ " wide with inside edges turned under and topstitched  $\frac{1}{8}$ " gauge. Top of pocket shall be level with bottom of armhole.

## ATTACHMENT D

A hook and pile closed patch pocket shall be 10 ½" deep and run side seam to front seam with the top level with the bottom of the armhole. The top hem shall be turned under with the raw edge turned under and topstitched 1/16" gauge. The hem shall finish ¾" wide with a 5/8" by 4" piece of hook tape sewn to the hem, centered side-to-side. A corresponding piece of pile tape shall be sewn on the right front lining. The pocket shall be made from lining fabric.

**II-A,C Pockets:** A zippered, single welt, hand warmer slash pocket shall be located on each front. The bottom of the pocket opening shall be 3" above the bottom front hem and 2 5/8" from the side seam. The top of the pocket opening shall be 10" from the bottom hem and 3 ¼" from the side seam. The opening shall be 6 ¾" long. The welt shall be 7" long and 5/8" wide. Welt edges shall be topstitched 1/16" gauge. Pocket lining shall be outer shell fabric and shall be 6" deep at center.

A zippered patch pocket shall be located under the left front. The pocket shall be 7 ¼" wide by 8" deep with a 6" opening. The pocket shall be made from lining fabric. The zipper shall be centered 1 ½" below top edge of pocket. Opening in lining shall be 6 1/8" long and ¾" wide with inside edges turned under and topstitched 1/16" gauge. Top of pocket shall be level with bottom of armhole.

A hook and pile closed patch pocket shall be 6 ¼" deep and run side seam to front seam with the top level with the bottom of the armhole. The top hem shall be turned under with the raw edge turned under and topstitched 1/16" gauge. The hem shall finish ¾" wide with a 5/8" by 4" piece of hook tape sewn to the hem, centered side-to-side. A corresponding piece of pile tape shall be sewn on the right front lining. The pocket shall be made from lining fabric.

**II-B,D Pockets:** A zippered, single welt, hand warmer slash pocket shall be located on each front. The bottom of the pocket opening shall be 3 ¾" above the bottom front hem and 2 5/8" from the side seam. The top of the pocket opening shall be 10 ½" from the bottom hem and 4" from the side seam. The opening shall be 6 7/8" long. The welt shall be 6 7/8" long and 5/8" wide. Welt edges shall be topstitched 1/16" gauge. Pocket lining shall be outer shell fabric and shall be 6" deep at center.

A zippered patch pocket shall be located under the left front. The pocket shall be 7 ½" wide by 8" deep with a 6" opening. The pocket shall be made from lining fabric. The zipper shall be centered 1 5/8" below top edge of pocket. Opening in lining shall be 6" long and ¾" wide with inside edges turned under and topstitched 1/16" gauge. Top of pocket shall be level with bottom of armhole.

A hook and pile closed patch pocket shall be 8 ½" deep and run side seam to front seam with the top level with the bottom of the armhole. The top hem shall be turned under with the raw edge turned under and topstitched 1/8" gauge. The hem shall finish ¾" wide with a 5/8" by 4" piece of hook tape sewn to the hem, centered side-to-side. A corresponding piece of pile tape shall be sewn on the right front lining. The pocket shall be made from lining fabric.

**I-A,C Back:** The back shall be plain and shall be 33" long at center back from collar seam to bottom edge.

**I-B,D Back:** The back shall be plain and shall be 27" long at center back from collar seam to bottom edge.

**II-A,C Back:** The back shall be plain and shall be 29" long at center back from collar seam to bottom edge.

**II-B,D Back:** The back shall be plain and shall be 23" long at center back from collar seam to bottom edge.

**I-A,C Sleeves:** The sleeves shall be raglan, one piece construction. The sleeve head shall be 6 ¼" wide at the collar seam and shall be 33" long from collar seam to bottom edge. Sleeves shall be interlined with 200 gram insulation and lined to within 3" of bottom. Outer shell fabric shall extend up inside the sleeves 3" and sewn to the lining. The bottom edge of the sleeve shall be edge stitched 5/8" gauge.

## ATTACHMENT D

- I-B,D**      **Sleeves:** The sleeves shall be raglan, one-piece construction. The sleeve head shall be 6 ¼" wide at the collar seam and shall be 32" long from collar seam to bottom edge. Sleeves shall be interlined with 200 gram insulation and lined to within 3" of bottom. Outer shell fabric shall extend up inside the sleeves 3" and sewn to the lining. The bottom edge of the sleeve shall be edge stitched 5/8" gauge.
- II-A,C**      **Sleeves:** The sleeves shall be raglan, one piece construction. The sleeve head shall be 5" wide at the collar seam and shall be 30 ½" long from collar seam to bottom edge. Sleeves shall be interlined with 200 gram insulation and lined to within 3" of bottom. Outer shell fabric shall extend up inside the sleeves 3" and sewn to the lining. The bottom edge of the sleeve shall be edge stitched 5/8" gauge.
- II-B,D**      **Sleeves:** The sleeves shall be raglan, one piece construction. The sleeve head shall be 5 ¼" wide at the collar seam and shall be 31" long from collar seam to bottom edge. Sleeves shall be interlined with 200 gram insulation and lined to within 3" of bottom. Outer shell fabric shall extend up inside the sleeves 3" and sewn to the lining. The bottom edge of the sleeve shall be edge stitched 5/8" gauge.
- \***            **Cuffs:** A 3" wide knitted cuff shall be sewn into the lining/outershell seam.
- I-A,C**      **Bottoms:** The bottom outer shell fabric shall be turned up to the inside with raw edge turned under and edge stitched 1/8" gauge. The hem shall be 3/4" wide.
- I-B,D**      **Bottoms:** The bottom shall be finished with a 2" wide waistband. Elastic 2" wide by 11" long shall be sewn inside. Each side of the waistband shall start 6 ¼" from each front edge. The elastic shall be stitched to the waistband and lining 1" from the bottom edge. The center back and front sections of the waistband shall be insulated. The center back section shall finish 9 ¾" wide. The waistband and waistband lining shall be outer shell fabric. The bottom of front and back sections shall be edgestitched, ¼" gauge.
- II-A,C**      **Bottoms:** The bottom outer shell fabric shall be turned up to the inside with raw edge turned under and edge stitched 1/8" gauge. The hem shall be 3/4" wide.
- II-B,D**      **Bottoms:** The bottom shall be finished with a 2" wide waistband. Elastic 2" wide by 8" long shall be sewn inside. Each side of the waistband shall start 6 3/8" from each front edge. The elastic shall be stitched to the waistband and lining 1" from the bottom edge. The center back and front sections of the waistband shall be insulated. The center back section shall finish 9 ½" wide. The waistband and waistband lining shall be outer shell fabric. The bottom of front and back sections shall be edgestitched, ¼" gauge.
- \***            **Patch:** The organizations ensign shoulder patch shall be sewn securely in the center of the left sleeve with the top edge approximately 7" below the collar seam. (Raglan sleeves) The patch shall to be sewn with inconspicuous stitching using red thread to match the emblem border color.

## ATTACHMENT D

### Sizes and Measurements

#### Finished Dimensions

<b>I-A,C</b>	<b>Sizes:</b> S - XXXL in regular, M-XXL in long
<b>I-B,D</b>	<b>Sizes:</b> S – XXXL in regular, M-XXL in long
<b>II-*</b>	<b>Sizes:</b> S, M, L, XL

## ATTACHMENT D

### C399 Patch, COE Ensign

Specifications are identical for the following other component:

### C402 Patch, COE Volunteer

Sample Size: N/A

#### GENERAL DESCRIPTION

COE Ensign and Volunteer patches.

**TYPE ITEMS:** \*--All Patches    Type I—Male    Type II—Female

**CLASSIFICATION**                      COE# (M/F)

*	All patches	*
A	Ensign	C399
B	Volunteer	C402

#### SALIENT CHARACTERISTICS

##### Components

\*        **Background Material:** The background material shall be vat dyed 6 ¾ to 7 1/2 ounce/yd 65/35 Poly Cotton cured and preshrunk (resin impregnated and oven cured). Tensile strength shall be a minimum of 150/110 pounds. The color of the background material shall be white Robison-Anton 65/35 Poly/Cotton.

**Thread:** Embroidery thread shall be continuous filament rayon yarn. Thread color and denier standards are obtainable from Robin-Anton (R/A# below), 175 Bergen Boulevard, Fairview , New Jersey 07022. Standards are:

*-A	<b>COLOR R/A</b>	<b>CABLE</b>	<b>DENIER</b>
	White FD008	White 67101	150/2
	Red FD007	Scarlet 67111	100/2
	Black FD007	Black Han 67138	100/2
	White FD008	White 67101	100/2
*-B	<b>COLOR R/A</b>	<b>CABLE</b>	
	Lettering	Black FD007	Black HAN 67138
	Background	White FD008	White 67101
	Castle	White FD008	White 67101
	Castle Background	Red FD07	Scarlet 67111
	Castle Border	White FD008	White 67101
	Edge	Red FD07	Scarlet 67111

## ATTACHMENT D

### General Instructions

#### \* **Embroidering:**

A 4-mil polyurethane film sheet shall be applied to the back side of the base material prior to embroidering for stability.

Patches shall be machine embroidered on Swiss looms with automats.

For uniformity, all detail shall be the same height, composition, and weight as indicated on the design; stiehle borders shall be the same thickness all the way around the elements they enclose; design features shall be the same height and thickness. Design features shall be clearly delineated; and all materials, elements and colors of the patches shall be of the same construction, size, thickness depths, shades and raidinces as those of the established patch design standards.

#### \* **Stitching:**

Each patch shall contain not less than 4,900 stitches and 9,800 revolutions excluding the stitching in the overlocked merrow edges.

A stitch is defined as the length of thread between two needle entry points. One stitch is further identified as that space on a Schiffli embroidery program roll between two transport holes. One meter equals one hundred stitches. Bidders shall indicate the number of stitches, and revolutions, in their submissions.

Stitch scale shall be of sufficient density as to preclude the “bleeding”, or see through, of the background material, and uneven matting, register, of color elements. There shall be sufficient underlay stitching to give a three-dimensional, high relief appearance, and shall have the exact appearance as the standard sample. No stitch shall be greater than ten millimeters in length. Double thread or any thread of different deniers or plys or composition shall not be permitted.

**Over Lock Merrow Edges:** Overlocked merrow edges shall be applied to the patches after the loom operation. Zig-zag stitches, in the configuration of alternating V’s and inverted V’s, supported by running stitches shall be applied around the entire periphery of the individual patches, under the overlocked merrow edge, to prevent the merrow edge from pulling away from the base material. Straight line running stitches alone shall not serve this purpose, buttonhole stitched edges under the merrow edges do not meet this requirement.

The edges shall consist of seven separate threads: five 150/2 denier rayon threads for the top, or front, portion of the edges, and two 20/2 denier cotton threads for the underneath, or back side, of the edges. Fewer threads or other materials are not permitted.

The overlocked merrow edge density shall be at least twenty threads per inch. The edges shall be overrun a minimum of 3/8”, and the seven end threads shall be pulled through the entire length of the overrun to prevent raveling. Threads shall not be pasted down, taped, knotted, tied, fused into, or onto, or under the plastic film backing, cut off, tucked under, or chained off, but all seven thread shall be pulled through the entire length of the overrun.

\* The color of the merrow yarn shall be Red, cable color Scarlet 76111.



## ATTACHMENT D

- \* **Finishing:** A four mil polyurethane film sheet shall be bonded to the back side of the patches before cutting. Sufficient heat shall be applied to cause the film to melt and bond to the fabric and bobbin threads. The film shall be capable of withstanding home, commercial and industrial laundering. The film shall not stiffen nor crack during laundering.

The film shall be applied in a manner to preclude the crushing, flattening, or depressing of the three-dimensionality or high relief of the embroidery, caused by the application of pressure during the bonding process; nor shall there be jump stitch indentations on the fronts of the patches. The film sheet shall be applied to the span of loom patches prior to cutting. The finished patches must be dye cut to the exact shape in the manufacturer's own facilities.

- \* **Workmanship:** No distortion of the exterior shape of the patch is allowable. All patches shall show a clear-cut execution, and shall be clean, neatly made, with full tension on all threads so that they lie completely flat on a smooth surface. Threads shall not buckle nor show underlay stitching when patches are bent. There shall be no broken stitches in the patches; not shall any stitches be out of proper alignment. No parts of the patches shall be mended.

- \* **Production Samples:** Submit 12 actual loom production lots to the Agency COTR for review and approval prior to shipment.

## ATTACHMENT D

### C402 Patch, COE Volunteer

Specifications are identical for the following other component:

### C399 Patch, COE Ensign

Sample Size: N/A

#### GENERAL DESCRIPTION

COE Ensign and Volunteer patches.

**TYPE ITEMS:** \*--All Patches    Type I—Male    Type II—Female

**CLASSIFICATION**                      COE# (M/F)

*	All patches	*
A	Ensign	C399
B	Volunteer	C402

#### SALIENT CHARACTERISTICS

##### Components

\*        **Background Material:** The background material shall be vat dyed 6 ¾ to 7 1/2 ounce/yd 65/35 Poly Cotton cured and preshrunk (resin impregnated and oven cured). Tensile strength shall be a minimum of 150/110 pounds. The color of the background material shall be white Robison-Anton 65/35 Poly/Cotton.

**Thread:** Embroidery thread shall be continuous filament rayon yarn Thread color and denier standards are obtainable from Robin-Anton (R/A# below), 175 Bergen Boulevard, Fairview , New Jersey 07022. Standards are:

*-A	<b>COLOR R/A</b>	<b>CABLE</b>	<b>DENIER</b>
	White FD008	White 67101	150/2
	Red FD007	Scarlet 67111	100/2
	Black FD007	Black Han 67138	100/2
	White FD008	White 67101	100/2
*-B	<b>COLOR R/A</b>	<b>CABLE</b>	
	Lettering	Black FD007	Black HAN 67138
	Background	White FD008	White 67101
	Castle	White FD008	White 67101
	Castle Background	Red FD07	Scarlet 67111
	Castle Border	White FD008	White 67101
	Edge	Red FD07	Scarlet 67111

## ATTACHMENT D

### General Instructions

#### \* **Embroidering:**

A 4-mil polyurethane film sheet shall be applied to the back side of the base material prior to embroidering for stability.

Patches shall be machine embroidered on Swiss looms with automats.

For uniformity, all detail shall be the same height, composition, and weight as indicated on the design; stiehle borders shall be the same thickness all the way around the elements they enclose; design features shall be the same height and thickness. Design features shall be clearly delineated; and all materials, elements and colors of the patches shall be of the same construction, size, thickness depths, shades and raidinces as those of the established patch design standards.

#### \* **Stitching:**

Each patch shall contain not less than 4,900 stitches and 9,800 revolutions excluding the stitching in the overlocked merrow edges.

A stitch is defined as the length of thread between two needle entry points. One stitch is further identified as that space on a Schiffli embroidery program roll between two transport holes. One meter equals one hundred stitches. Bidders shall indicate the number of stitches, and revolutions, in their submissions.

Stitch scale shall be of sufficient density as to preclude the “bleeding”, or see through, of the background material, and uneven matting, register, of color elements. There shall be sufficient underlay stitching to give a three-dimensional, high relief appearance, and shall have the exact appearance as the standard sample. No stitch shall be greater than ten millimeters in length. Double thread or any thread of different deniers or plys or composition shall not be permitted.

**Over Lock Merrow Edges:** Overlocked merrow edges shall be applied to the patches after the loom operation. Zig-zag stitches, in the configuration of alternating V’s and inverted V’s, supported by running stitches shall be applied around the entire periphery of the individual patches, under the overlocked merrow edge, to prevent the merrow edge from pulling away from the base material. Straight line running stitches alone shall not serve this purpose, buttonhole stitched edges under the merrow edges do not meet this requirement.

The edges shall consist of seven separate threads: five 150/2 denier rayon threads for the top, or front, portion of the edges, and two 20/2 denier cotton threads for the underneath, or back side, of the edges. Fewer threads or other materials are not permitted.

The overlocked merrow edge density shall be at least twenty threads per inch. The edges shall be overrun a minimum of 3/8”, and the seven end threads shall be pulled through the entire length of the overrun to prevent raveling. Threads shall not be pasted down, taped, knotted, tied, fused into, or onto, or under the plastic film backing, cut off, tucked under, or chained off, but all seven thread shall be pulled through the entire length of the overrun.

\* The color of the merrow yarn shall be Red, cable color Scarlet 76111.

## ATTACHMENT D

- \* **Finishing:** A four mil polyurethane film sheet shall be bonded to the back side of the patches before cutting. Sufficient heat shall be applied to cause the film to melt and bond to the fabric and bobbin threads. The film shall be capable of withstanding home, commercial and industrial laundering. The film shall not stiffen nor crack during laundering.

The film shall be applied in a manner to preclude the crushing, flattening, or depressing of the three-dimensionality or high relief of the embroidery, caused by the application of pressure during the bonding process; nor shall there be jump stitch indentations on the fronts of the patches. The film sheet shall be applied to the span of loom patches prior to cutting. The finished patches must be dye cut to the exact shape in the manufacturer's own facilities.

- \* **Workmanship:** No distortion of the exterior shape of the patch is allowable. All patches shall show a clear-cut execution, and shall be clean, neatly made, with full tension on all threads so that they lie completely flat on a smooth surface. Threads shall not buckle nor show underlay stitching when patches are bent. There shall be no broken stitches in the patches; not shall any stitches be out of proper alignment. No parts of the patches shall be mended.

- \* **Production Samples:** Submit 12 actual loom production lots to the Agency COTR for review and approval prior to shipment.

## ATTACHMENT D

**C421 Shirt, Male, Grey 10 Oz. 65/35 P/R Tropical, LS with Badge Tab**

**Specifications are identical for the following other components:**

**N430 Shirt, Male, Grey 10 Oz. 65/35 P/R Tropical, LS with Badge Tab**  
**N432 Shirt, Male, Grey 4.25 Oz. 65/35 P/C Poplin, SS, CC with Badge Tab**  
**C422 Shirt, Male, Grey 10 Oz. 65/35 P/R Tropical, SS, CC with Badge Tab**  
**N428 Shirt, Male, Grey 10 Oz. 65/35 P/R Tropical, SS, CC with Badge Tab**  
**C427 Shirt, Male, Grey 4.25 Oz. 65/35 P/C Poplin, SS, CC with Badge Tab**  
**N600 Shirt, Male, Grey 5.5 Oz. 65/35 P/C Twill, LS without Badge Tab**  
**N431 Shirt, Male, Grey 5.5 Oz. 65/35 P/C Twill, SS, CC, without Badge Tab**  
**C447 Shirt, Female, Grey 10 Oz. 65/35 P/R Tropical, LS with Badge Tab**  
**N456 Shirt, Female, Grey 10 Oz. 65/35 P/R Tropical, LS with Badge Tab**  
**C448 Shirt, Female, Grey 10 Oz. 65/35 P/R Tropical, SS, CC with Badge Tab**  
**N454 Shirt, Female, Grey 10 Oz. 65/35 P/R Tropical, SS, CC with Badge Tab**  
**C453 Shirt, Female, Grey 4.25 Oz. 65/35 P/C Poplin, SS, CC with Badge Tab**  
**N458 Shirt, Female, Grey 4.25 Oz. 65/35 P/C Poplin, SS, CC with Badge Tab**  
**N457 Shirt, Female, Grey 5.5 Oz. 65/35 P/C Twill, LS without Badge Tab**  
**N601 Shirt, Female, Grey 5.5 Oz. 65/35 P/C Twill, SS, CC, without Badge Tab**

**Sample Size:** Male-16x33, Female-36

### GENERAL DESCRIPTION

The shirt is form fitting with two pleated breast pockets with scalloped flaps and shoulder straps. The shirt has military creases, a pencil slot, and a shoulder emblem. Variations of this garment shall include male and female:

Long-vs-short sleeves (LS, SS)

Two-piece shirt collar-vs-convertible collar (2PC, CC)

Tropical weave-vs-poplin-vs-twill (Trop, Pop, Twill)

**TYPE ITEMS: \* - All Items      Type I - Male Items      Type II - Female Items**

<b>CLASSIFICATION</b>		<b>COE # (M/F)</b>	<b>NPS # (M/F)</b>
*	All Items	*	*
A	LS, 2 piece collar w BT, Trop	C421/C447	N430/N456
B	LS, 2 piece collar wo BT, Twill**	--	N600/N457
C	SS, CC, w BT, Trop	C422/C448	N428/N454
D	SS, CC, w BT, Pop**	C427/C453	N432/N458
E	SS, CC, wo BT, Twill**	--	N431/N601

\*\* see special note under **FRONT**

## ATTACHMENT D

### SALIENT CHARACTERISTICS

#### Components

##### Type-Class

- \*-A, C **Basic Material:** The material shall be shade #51, Nickel Grey or equal 10 Oz. 65/35 polyester/rayon tropical weave matching standard sample.
- \*-D **Basic Material:** The material shall be Nickel grey 4 Oz. 65/35 polyester/cotton poplin weave matching the standard sample.
- \*-B, E **Basic Material:** The material shall be Grey 5.5 Oz. 65/35 polyester/combed cotton twill weave matching Milliken 2640-5598.
- \* **Linings:** Shall have collar and yoke linings that are compatible with the construction of the shirts.
- \* **Thread:** Sewing thread for all operations shall be cotton covered polyester, dyed to match shade of self material, and conforming to ticket numbers 50-2 ply or 50-3 ply.
- \* **Buttons:** Buttons shall be first grade 19 ligne pearlescent plastic buttons and shall match the color of basic material.
- \* **Collar Stays:** The collar stay shall be made of good quality vinyl, attached to the inside of the bottom collar leaf, and come out to the stitching line.
- \* **Labels:** See general reference and requirements sheet.

#### General Instructions

- \* **Cutting:** Collars, bands, pockets, and flaps shall be cut to ensure uniformity.
- \* **Stitching:** A lockstitch (301) shall be used throughout, except inserting the sleeve and side closing operations, which shall be safety stitched (516). All topstitching shall be ¼" from edge. There shall be 10 to 14 stitches per inch required.
- I-A,B **Button Holes For Two-Piece Shirt Collar:** The shirt shall have 7 cut buttonholes down the front. For proper appearance with clip-on tie, the stand shall be fastened with one button so there shall be a tie space of ¼" when collar is buttoned. There shall be 1 cut buttonhole on each shoulder strap and 1 uncut buttonhole on each pocket flap.
- I-C,D,E **Button Holes For Convertible Collar:** The shirt shall have 7 cut buttonholes down the front left facing. The center of the first buttonhole shall be 5/8" from top edge at center front. The center of the second buttonhole on the left facing shall be 2 ½" from the bottom of the top buttonhole. The remaining buttonholes shall be spaced 3 ¾" apart. There shall be 1 cut buttonhole on each shoulder strap, 1 uncut buttonhole on each pocket flap, and 2 cut buttonholes on each cuff. A vertical cut buttonhole shall be sewn on the sleeve placket opening 2 ½" from the top of the cuff, centered on the top placket with a matching button centered on bottom placket.
- II-A, B **Button Holes For Two-Piece Shirt Collar:** The shirt shall have 6 cut buttonholes down the front. The center of the first buttonhole shall be placed on the collar band 1" from edge. The center of the second buttonhole which is on the center plait shall be 3 ¼" from the bottom of the collar. For proper appearance with clip-on tie, the stand shall be fastened with one button so there shall be a tie space of ¼" when collar is buttoned. The remaining buttonholes shall be spaced 3 ½" apart. There shall be 1 cut buttonhole on each shoulder strap and 1 uncut buttonhole on each pocket flap.

## ATTACHMENT D

- II-C,D,E Button Holes For Convertible Collar:** The shirt shall have 6 cut buttonholes down the front right facing. The center of the first buttonhole shall be  $\frac{1}{2}$ " from top edge at center front. The center of the second buttonhole on the right facing shall be  $2\frac{1}{2}$ " from the bottom of the top buttonhole. The remaining buttonholes shall be spaced  $3\frac{1}{2}$ " apart. There shall be 1 cut buttonhole on each shoulder strap and 1 uncut buttonhole on each pocket flap.

### Detail Design Characteristics

- I-A, B Two-Piece Shirt Collar:** The garment shall have a two piece shirt collar. The points on the collar leaf shall measure  $3\frac{1}{4}$ " in length and be topstitched  $\frac{1}{4}$ " from the edge. The collar leaf shall be  $1\frac{3}{4}$ " from roll line to bottom edge of collar at center back. The collar stand shall measure  $1\frac{5}{16}$ " at center back and be topstitched  $\frac{1}{16}$ " from top and bottom edges. For proper appearance with clip on tie, the stand shall be fastened with one button so that there shall be a tie space of  $\frac{1}{4}$ " when the collar is buttoned. The collar's interlining shall be a permanent press finish of 250 weight or equal.
- II-A, B Two-Piece Shirt Collar:** The garment shall have a two piece shirt collar. The points on the collar leaf shall measure  $2\frac{7}{8}$ " in length and be topstitched  $\frac{1}{4}$ " from the edge. The collar leaf shall be  $1\frac{1}{2}$ " from roll line to bottom edge of collar at center back. The collar stand shall measure  $1\frac{5}{16}$ " at center back and be topstitched  $\frac{1}{16}$ " from top and bottom edges. For proper appearance with clip on tie, the stand shall be fastened with one button so that there shall be a tie space of  $\frac{1}{4}$ " when the collar is buttoned. The collar's interlining shall be a permanent press finish of 250 weight or equal.
- I-C,D,E Convertible Collar:** The garment shall have a one piece convertible collar. The points on the collar shall measure  $3\frac{1}{4}$ " in length,  $3\frac{1}{4}$ " at center back, and be topstitched  $\frac{1}{4}$ " from the edge. The collar's interlining shall be a permanent press finish of 250 weight or equal.
- II-C,D,E Convertible Collar:** The garment shall have a one-piece convertible collar. The points on the collar shall measure  $2\frac{7}{8}$ " in length,  $2\frac{7}{8}$ " at center back, and be topstitched  $\frac{1}{4}$ " from the edge. The collar's interlining shall be a permanent press finish of 250 weight or equal.
- I-A,C,D Shoulder Straps:** Shoulder straps shall be 2" at sleeve head and tapered to  $1\frac{3}{4}$ "- $1\frac{1}{2}$ ". The straps shall be stitched to the shoulder by a single needle machine forming an "X" beginning at the sleeve head and extending for approximately one-half the length of the strap. Length of straps shall be graduated conforming to size of shirt and set not more than  $\frac{1}{2}$ " from folded collar. Buttons attached to yokes shall match shoulder strap buttonholes at pointed ends.
- I-B, E Shoulder Straps:** Shoulder straps shall be 2" at sleeve head and tapered to  $1\frac{3}{4}$ "- $1\frac{1}{2}$ ". The straps shall be stitched to the shoulder by a single needle machine forming an "X" beginning at the sleeve head and extending for approximately one-half the length of the strap. Length of straps shall be graduated conforming to size of shirt and set not more than  $\frac{1}{2}$ " from folded collar. Buttons attached to yokes shall match shoulder strap buttonholes at pointed ends. **The shoulder straps shall be sewn down around the edges.**
- II-A,C,D Shoulder Straps:** Shoulder straps shall be  $1\frac{5}{8}$ " at sleeve head and tapered to  $1\frac{3}{8}$ "- $1\frac{1}{4}$ ". The straps shall be stitched to the shoulder by a single needle machine forming an "X" beginning at the sleeve head and extending for approximately one-half the length of the strap. Length of straps shall be graduated conforming to size of shirt and set not more than  $\frac{1}{2}$ " from folded collar. Buttons attached to yokes shall match shoulder strap buttonholes at pointed ends.
- II-B, E Shoulder Straps:** Shoulder straps shall be  $1\frac{5}{8}$ " at sleeve head and tapered to  $1\frac{3}{8}$ "- $1\frac{1}{4}$ ". The straps shall be stitched to the shoulder by a single needle machine forming an "X" beginning at the sleeve head and extending for approximately one-half the length of the strap. Length of straps shall be graduated conforming to size of shirt and set not more than  $\frac{1}{2}$ " from folded collar. Buttons attached to yokes shall match shoulder strap buttonholes at pointed ends. **The shoulder straps shall be sewn down around the edges.**

## ATTACHMENT D

- I-A,B Front for Two-Piece Shirt Collar:** Each front shall have a facing 2 ½" in width extending from the neckline to the bottom of the shirt, and provided by a turn under of material. The left front shall contain 6 vertical buttonholes placed ¾" from the edge of the plait and be 3 ½" apart. There shall be one button on the collar stand placed ¾" from edge. The button stand shall be 7/8" wide and be placed on the left side of the shirt. The buttons shall be securely attached to the button stand corresponding to the buttonholes on the facing.
- I-B \*\*Add 2" to shirt length.**
- II-A, B Front for Two-Piece Shirt Collar:** Each front shall have a facing 2 ½" in width extending from the neckline to the bottom of the shirt, and provided by a turn under of material. The right front shall contain 6 vertical buttonholes placed ¾" from the edge of the plait and be 3 ½" apart. There shall be one button on the collar stand placed ¾" from edge. The button stand shall be 7/8" wide and be placed on the right side of the shirt. The buttons shall be securely attached to the button stand corresponding to the buttonholes on the facing.
- I-B \*\*Add 2" to shirt length.**
- II-C,D,E Front for Convertible Collar:** Each front shall have a 3" facing provided by a turn under of material. The facings shall extend from the neckline to the bottom of the shirt. The left front shall contain 7 vertical cut buttonholes placed ¾" from the edge. The center of the first buttonhole shall be 5/8" from the top edge at center front. The second buttonhole shall be positioned 2 ½" from the top button with remaining buttonholes spaced 3 ¾" apart. The buttons shall be securely attached to the button stand corresponding to the buttonholes on the facing.
- I-D, E \*\*Add 2" to shirt length.**
- II-C,D,E Front for Convertible Collar:** Each front shall have a ½" facing provided by a turn under of material. The facings shall extend from the neckline to the bottom of the shirt. The right front shall contain 6 vertical buttonholes placed ¾" from the edge. The center of the first buttonhole shall be ½" from the top edge center front. The second buttonhole shall be positioned 2 ½" from the top button with remaining buttonholes spaced 3 ½" apart. The buttons shall be securely attached to the button stand corresponding to the buttonholes on the facing.
- II-D, E \*\*Add 2" to shirt length.**
- \*-A,C,D Badge Reinforcement:** The shirt shall have a 1" wide inside sling type badge holder extending from the shoulder joining seam to pocket of the left front and constructed of the basic material. Two small, uncut buttonholes shall be 1 1/8" apart with the lower buttonhole approximately 1 ¼" above top of left pocket flap.
- \* Pocket Flaps:** There shall be two deep scalloped flaps, 5 7/8" wide, 2 ¼" at sides, and 2 ¾" at center. There shall be a 1 ½" pencil opening through the left flap and a vertical uncut buttonhole in the center of the flap with a button sewn on top of the buttonhole. The flaps shall be topstitched 1/8" from edge and attached to the shirt front with a double row, ¼" gauge stitching. The underside of the flap shall have hook and pile tape, approximately 1" long by 3/8" wide, positioned on outer points of both pocket flaps.
- \* Pockets:** Both pockets shall have 1 ½" centered pleats stitched to prevent spreading. Pockets shall be 5 ½" wide x 5 ¾" deep with bottom mitered corners. The left pocket shall have a pencil slot 1 ½" from center edge. Upper hem shall be ½" wide. Pockets shall be topstitched 1/16" gauge with ¾" triangle tacks at upper corners. Both pockets shall have an approximately 1" long by 3/8" wide piece of hook and pile tape positioned to correspond with the hook and pile tape on each outer scalloped flap point.



## ATTACHMENT D

- I-\***      **Yoke & Back:** The yoke shall be constructed of two pieces. The outside yoke shall be made of the same fabric as the outer shell of the garment and the inside yoke shall be made of the lining fabric. The yoke shall be 3 ½” at center back and 3 ¾” at armhole.
- II-\***      **Yoke & Back:** The yoke shall be constructed of two pieces. The outside yoke shall be made of the same fabric as the outer shell of the garment and the inside yoke shall be made of the lining fabric. The yoke shall be 3 ½” at center back and 3 ¾” at armhole.
- I-A, B**      **Long Sleeves:** Each sleeve shall have a 5” long sleeve placket with a 1” wide top placket and a ½” wide bottom placket. The sleeve placket is 5” long with top and bottom facings. A vertical buttonhole shall be sewn 2 ½” from top of cuff centered on top placket with matching button centered on bottom.
- Cuffs:** Cuffs shall be 2 ¾” in depth with rounded corners ¼” topstitching at bottom and double stitched 3/8” gauge topstitching where cuff joins sleeve. Two horizontal buttons with corresponding horizontal buttonhole shall be centered on each cuff 1 ¼” apart.
- II-A, B**      **Long Sleeves:** Each sleeve shall have a 5” long sleeve placket with a 1” wide top placket and a ½” wide bottom placket. The sleeve is 5” long with top and bottom facings. A vertical buttonhole shall be sewn 2 ½” from top of cuff centered on top placket with matching button centered on bottom.
- Cuffs:** Cuffs shall be 2 ½” in depth with rounded corners ¼” topstitching at bottom and double stitched 3/8” gauge topstitching where cuff joins sleeve. Two horizontal buttons with corresponding horizontal buttonhole shall be centered on each cuff 1” apart.
- \*-C,D,E**      **Short Sleeves:** The sleeve shall be approximately 9” long from the shoulder seam. There shall be a ¾” hem turned to the inside with the folded edge topstitched 1/16” from the upper folded edge. The bottom edge of the sleeve closing seam shall bartacked within 1/8” of the lower edge.
- \***              **Bottoms:** A ¼” rolled hem at the bottom of the garment is preferred.
- \*-A,C,D**      **Military Creases:** There shall be five 1/16” sharp military creases on the shirt. There shall be one crease on each front, centered vertically through pocket and flap. Spacing for military creases on shirt back shall be proportionate to the size of the shirt. For lightweight fabric (4 to 6 ounces) creases must be stitched in; for heavy fabrics (10 ounce) stitches shall be baked in.
- \***              **Patch:** The organizations shoulder patch shall be sewn securely in the center of the left sleeve with the top edge 1 ¼ to 1 ½” below the shoulder seam depending on the garment size. The patch shall be sewn with matching thread and attached so that the edges do not roll-up after washing.

## ATTACHMENT D

### Sizes and Measurements

<b>I-A, B</b>	<b>Sizes:</b>	<u>Neck</u>	<u>Sleeve</u>
		14	31-33
		14.5	31-34
		15	31-35
		15.5	31-36
		16	31-36
		16.5	31-36
		17	31-37
		17.5	31-37
		18	31-36
		18.5	33-37
		19	33-36
		20	33-36
		21	33-36
		22	33-36

**I-C,D,E**    **Sizes:**                    S-4XL

<b>II-A,B</b>	<b>Sizes:</b>	<u>Bust Size</u>	<u>Sleeve</u> (R-Regular, L-Long—L=sleeve length + 1” )
		28	30    R
		30	30    R&L
		32	30    R&L
		34	30    R&L
		36	31    R&L
		38	31    R&L
		40	32    R&L
		42	33    R&L
		44	33    R&L
		46	33    R&L
		48	33    R&L
		50	33    R&L

**II-C,D,E**    **Sizes:**                    28-50 in even sizes only.

\*            **Pressing and Finishing:** Component parts shall be pressed on hot head machines; finished shirt shall be pressed and folded using jet clips or non-corrosive fasteners.

## ATTACHMENT D

**C422 Shirt, Male, Grey 10 Oz. 65/35 P/R Tropical, SS, CC with Badge Tab**

**Specifications are identical for the following other components:**

**C421 Shirt, Male, Grey 10 Oz. 65/35 P/R Tropical, LS with Badge Tab**  
**N430 Shirt, Male, Grey 10 Oz. 65/35 P/R Tropical, LS with Badge Tab**  
**N432 Shirt, Male, Grey 4.25 Oz. 65/35 P/C Poplin, SS, CC with Badge Tab**  
**N428 Shirt, Male, Grey 10 Oz. 65/35 P/R Tropical, SS, CC with Badge Tab**  
**C427 Shirt, Male, Grey 4.25 Oz. 65/35 P/C Poplin, SS, CC with Badge Tab**  
**N600 Shirt, Male, Grey 5.5 Oz. 65/35 P/C Twill, LS without Badge Tab**  
**N431 Shirt, Male, Grey 5.5 Oz. 65/35 P/C Twill, SS, CC, without Badge Tab**  
**C447 Shirt, Female, Grey 10 Oz. 65/35 P/R Tropical, LS with Badge Tab**  
**N456 Shirt, Female, Grey 10 Oz. 65/35 P/R Tropical, LS with Badge Tab**  
**C448 Shirt, Female, Grey 10 Oz. 65/35 P/R Tropical, SS, CC with Badge Tab**  
**N454 Shirt, Female, Grey 10 Oz. 65/35 P/R Tropical, SS, CC with Badge Tab**  
**C453 Shirt, Female, Grey 4.25 Oz. 65/35 P/C Poplin, SS, CC with Badge Tab**  
**N458 Shirt, Female, Grey 4.25 Oz. 65/35 P/C Poplin, SS, CC with Badge Tab**  
**N457 Shirt, Female, Grey 5.5 Oz. 65/35 P/C Twill, LS without Badge Tab**  
**N601 Shirt, Female, Grey 5.5 Oz. 65/35 P/C Twill, SS, CC, without Badge Tab**

**Sample Size:** Male-16x33, Female-36

### GENERAL DESCRIPTION

The shirt is form fitting with two pleated breast pockets with scalloped flaps and shoulder straps. The shirt has military creases, a pencil slot, and a shoulder emblem. Variations of this garment shall include male and female:

Long-vs-short sleeves (LS, SS)  
 Two-piece shirt collar-vs-convertible collar (2PC, CC)  
 Tropical weave-vs-poplin-vs-twill (Trop, Pop, Twill)

TYPE ITEMS: * - All Items		Type I - Male Items	Type II - Female Items
CLASSIFICATION		COE # (M/F)	NPS # (M/F)
*	All Items	*	*
A	LS, 2 piece collar w BT, Trop	C421/C447	N430/N456
B	LS, 2 piece collar wo BT, Twill** --		N600/N457
C	SS, CC, w BT, Trop	C422/C448	N428/N454
D	SS, CC, w BT, Pop**	C427/C453	N432/N458
E	SS, CC, wo BT, Twill** --		N431/N601

\*\* see special note under **FRONT**

## ATTACHMENT D

### SALIENT CHARACTERISTICS

#### Components

##### Type-Class

- \*-A, C **Basic Material:** The material shall be shade #51, Nickel Grey or equal 10 Oz. 65/35 polyester/rayon tropical weave matching standard sample.
- \*-D **Basic Material:** The material shall be Nickel grey 4 Oz. 65/35 polyester/cotton poplin weave matching the standard sample.
- \*-B, E **Basic Material:** The material shall be Grey 5.5 Oz. 65/35 polyester/combed cotton twill weave matching Milliken 2640-5598.
- \* **Linings:** Shall have collar and yoke linings that are compatible with the construction of the shirts.
- \* **Thread:** Sewing thread for all operations shall be cotton covered polyester, dyed to match shade of self material, and conforming to ticket numbers 50-2 ply or 50-3 ply.
- \* **Buttons:** Buttons shall be first grade 19 ligne pearlescent plastic buttons and shall match the color of basic material.
- \* **Collar Stays:** The collar stay shall be made of good quality vinyl, attached to the inside of the bottom collar leaf, and come out to the stitching line.
- \* **Labels:** See general reference and requirements sheet.

#### General Instructions

- \* **Cutting:** Collars, bands, pockets, and flaps shall be cut to ensure uniformity.
- \* **Stitching:** A lockstitch (301) shall be used throughout, except inserting the sleeve and side closing operations, which shall be safety stitched (516). All topstitching shall be ¼" from edge. There shall be 10 to 14 stitches per inch required.
- I-A,B **Button Holes For Two-Piece Shirt Collar:** The shirt shall have 7 cut buttonholes down the front. For proper appearance with clip-on tie, the stand shall be fastened with one button so there shall be a tie space of ¼" when collar is buttoned. There shall be 1 cut buttonhole on each shoulder strap and 1 uncut buttonhole on each pocket flap.
- I-C,D,E **Button Holes For Convertible Collar:** The shirt shall have 7 cut buttonholes down the front left facing. The center of the first buttonhole shall be 5/8" from top edge at center front. The center of the second buttonhole on the left facing shall be 2 ½" from the bottom of the top buttonhole. The remaining buttonholes shall be spaced 3 ¾" apart. There shall be 1 cut buttonhole on each shoulder strap, 1 uncut buttonhole on each pocket flap, and 2 cut buttonholes on each cuff. A vertical cut buttonhole shall be sewn on the sleeve placket opening 2 ½" from the top of the cuff, centered on the top placket with a matching button centered on bottom placket.
- II-A, B **Button Holes For Two-Piece Shirt Collar:** The shirt shall have 6 cut buttonholes down the front. The center of the first buttonhole shall be placed on the collar band 1" from edge. The center of the second buttonhole which is on the center plait shall be 3 ¼" from the bottom of the collar. For proper appearance with clip-on tie, the stand shall be fastened with one button so there shall be a tie space of ¼" when collar is buttoned. The remaining buttonholes shall be spaced 3 ½" apart. There shall be 1 cut buttonhole on each shoulder strap and 1 uncut buttonhole on each pocket flap.

## ATTACHMENT D

- II-C,D,E Button Holes For Convertible Collar:** The shirt shall have 6 cut buttonholes down the front right facing. The center of the first buttonhole shall be  $\frac{1}{2}$ " from top edge at center front. The center of the second buttonhole on the right facing shall be  $2\frac{1}{2}$ " from the bottom of the top buttonhole. The remaining buttonholes shall be spaced  $3\frac{1}{2}$ " apart. There shall be 1 cut buttonhole on each shoulder strap and 1 uncut buttonhole on each pocket flap.

### Detail Design Characteristics

- I-A, B Two-Piece Shirt Collar:** The garment shall have a two piece shirt collar. The points on the collar leaf shall measure  $3\frac{1}{4}$ " in length and be topstitched  $\frac{1}{4}$ " from the edge. The collar leaf shall be  $1\frac{3}{4}$ " from roll line to bottom edge of collar at center back. The collar stand shall measure  $1\frac{5}{16}$ " at center back and be topstitched  $\frac{1}{16}$ " from top and bottom edges. For proper appearance with clip on tie, the stand shall be fastened with one button so that there shall be a tie space of  $\frac{1}{4}$ " when the collar is buttoned. The collar's interlining shall be a permanent press finish of 250 weight or equal.
- II-A, B Two-Piece Shirt Collar:** The garment shall have a two piece shirt collar. The points on the collar leaf shall measure  $2\frac{7}{8}$ " in length and be topstitched  $\frac{1}{4}$ " from the edge. The collar leaf shall be  $1\frac{1}{2}$ " from roll line to bottom edge of collar at center back. The collar stand shall measure  $1\frac{5}{16}$ " at center back and be topstitched  $\frac{1}{16}$ " from top and bottom edges. For proper appearance with clip on tie, the stand shall be fastened with one button so that there shall be a tie space of  $\frac{1}{4}$ " when the collar is buttoned. The collar's interlining shall be a permanent press finish of 250 weight or equal.
- I-C,D,E Convertible Collar:** The garment shall have a one piece convertible collar. The points on the collar shall measure  $3\frac{1}{4}$ " in length,  $3\frac{1}{4}$ " at center back, and be topstitched  $\frac{1}{4}$ " from the edge. The collar's interlining shall be a permanent press finish of 250 weight or equal.
- II-C,D,E Convertible Collar:** The garment shall have a one-piece convertible collar. The points on the collar shall measure  $2\frac{7}{8}$ " in length,  $2\frac{7}{8}$ " at center back, and be topstitched  $\frac{1}{4}$ " from the edge. The collar's interlining shall be a permanent press finish of 250 weight or equal.
- I-A,C,D Shoulder Straps:** Shoulder straps shall be 2" at sleeve head and tapered to  $1\frac{3}{4}$ "- $1\frac{1}{2}$ ". The straps shall be stitched to the shoulder by a single needle machine forming an "X" beginning at the sleeve head and extending for approximately one-half the length of the strap. Length of straps shall be graduated conforming to size of shirt and set not more than  $\frac{1}{2}$ " from folded collar. Buttons attached to yokes shall match shoulder strap buttonholes at pointed ends.
- I-B, E Shoulder Straps:** Shoulder straps shall be 2" at sleeve head and tapered to  $1\frac{3}{4}$ "- $1\frac{1}{2}$ ". The straps shall be stitched to the shoulder by a single needle machine forming an "X" beginning at the sleeve head and extending for approximately one-half the length of the strap. Length of straps shall be graduated conforming to size of shirt and set not more than  $\frac{1}{2}$ " from folded collar. Buttons attached to yokes shall match shoulder strap buttonholes at pointed ends. **The shoulder straps shall be sewn down around the edges.**
- II-A,C,D Shoulder Straps:** Shoulder straps shall be  $1\frac{5}{8}$ " at sleeve head and tapered to  $1\frac{3}{8}$ "- $1\frac{1}{4}$ ". The straps shall be stitched to the shoulder by a single needle machine forming an "X" beginning at the sleeve head and extending for approximately one-half the length of the strap. Length of straps shall be graduated conforming to size of shirt and set not more than  $\frac{1}{2}$ " from folded collar. Buttons attached to yokes shall match shoulder strap buttonholes at pointed ends.
- II-B, E Shoulder Straps:** Shoulder straps shall be  $1\frac{5}{8}$ " at sleeve head and tapered to  $1\frac{3}{8}$ "- $1\frac{1}{4}$ ". The straps shall be stitched to the shoulder by a single needle machine forming an "X" beginning at the sleeve head and extending for approximately one-half the length of the strap. Length of straps shall be graduated conforming to size of shirt and set not more than  $\frac{1}{2}$ " from folded collar. Buttons attached to yokes shall match shoulder strap buttonholes at pointed ends. **The shoulder straps shall be sewn down around the edges.**

## ATTACHMENT D

- I-A,B Front for Two-Piece Shirt Collar:** Each front shall have a facing 2 ½" in width extending from the neckline to the bottom of the shirt, and provided by a turn under of material. The left front shall contain 6 vertical buttonholes placed ¾" from the edge of the plait and be 3 ½" apart. There shall be one button on the collar stand placed ¾" from edge. The button stand shall be 7/8" wide and be placed on the left side of the shirt. The buttons shall be securely attached to the button stand corresponding to the buttonholes on the facing.
- I-B \*\*Add 2" to shirt length.**
- II-A, B Front for Two-Piece Shirt Collar:** Each front shall have a facing 2 ½" in width extending from the neckline to the bottom of the shirt, and provided by a turn under of material. The right front shall contain 6 vertical buttonholes placed ¾" from the edge of the plait and be 3 ½" apart. There shall be one button on the collar stand placed ¾" from edge. The button stand shall be 7/8" wide and be placed on the right side of the shirt. The buttons shall be securely attached to the button stand corresponding to the buttonholes on the facing.
- I-B \*\*Add 2" to shirt length.**
- II-C,D,E Front for Convertible Collar:** Each front shall have a 3" facing provided by a turn under of material. The facings shall extend from the neckline to the bottom of the shirt. The left front shall contain 7 vertical cut buttonholes placed ¾" from the edge. The center of the first buttonhole shall be 5/8" from the top edge at center front. The second buttonhole shall be positioned 2 ½" from the top button with remaining buttonholes spaced 3 ¾" apart. The buttons shall be securely attached to the button stand corresponding to the buttonholes on the facing.
- I-D, E \*\*Add 2" to shirt length.**
- II-C,D,E Front for Convertible Collar:** Each front shall have a ½" facing provided by a turn under of material. The facings shall extend from the neckline to the bottom of the shirt. The right front shall contain 6 vertical buttonholes placed ¾" from the edge. The center of the first buttonhole shall be ½" from the top edge center front. The second buttonhole shall be positioned 2 ½" from the top button with remaining buttonholes spaced 3 ½" apart. The buttons shall be securely attached to the button stand corresponding to the buttonholes on the facing.
- II-D, E \*\*Add 2" to shirt length.**
- \*-A,C,D Badge Reinforcement:** The shirt shall have a 1" wide inside sling type badge holder extending from the shoulder joining seam to pocket of the left front and constructed of the basic material. Two small, uncut buttonholes shall be 1 1/8" apart with the lower buttonhole approximately 1 ¼" above top of left pocket flap.
- \* Pocket Flaps:** There shall be two deep scalloped flaps, 5 7/8" wide, 2 ¼" at sides, and 2 ¾" at center. There shall be a 1 ½" pencil opening through the left flap and a vertical uncut buttonhole in the center of the flap with a button sewn on top of the buttonhole. The flaps shall be topstitched 1/8" from edge and attached to the shirt front with a double row, ¼" gauge stitching. The underside of the flap shall have hook and pile tape, approximately 1" long by 3/8" wide, positioned on outer points of both pocket flaps.
- \* Pockets:** Both pockets shall have 1 ½" centered pleats stitched to prevent spreading. Pockets shall be 5 ½" wide x 5 ¾" deep with bottom mitered corners. The left pocket shall have a pencil slot 1 ½" from center edge. Upper hem shall be ½" wide. Pockets shall be topstitched 1/16" gauge with ¾" triangle tacks at upper corners. Both pockets shall have an approximately 1" long by 3/8" wide piece of hook and pile tape positioned to correspond with the hook and pile tape on each outer scalloped flap point.

## ATTACHMENT D

- I-\***      **Yoke & Back:** The yoke shall be constructed of two pieces. The outside yoke shall be made of the same fabric as the outer shell of the garment and the inside yoke shall be made of the lining fabric. The yoke shall be 3 ½” at center back and 3 ¾” at armhole.
- II-\***      **Yoke & Back:** The yoke shall be constructed of two pieces. The outside yoke shall be made of the same fabric as the outer shell of the garment and the inside yoke shall be made of the lining fabric. The yoke shall be 3 ½” at center back and 3 ¾” at armhole.
- I-A, B**      **Long Sleeves:** Each sleeve shall have a 5” long sleeve placket with a 1” wide top placket and a ½” wide bottom placket. The sleeve placket is 5” long with top and bottom facings. A vertical buttonhole shall be sewn 2 ½” from top of cuff centered on top placket with matching button centered on bottom.
- Cuffs:** Cuffs shall be 2 ¾” in depth with rounded corners ¼” topstitching at bottom and double stitched 3/8” gauge topstitching where cuff joins sleeve. Two horizontal buttons with corresponding horizontal buttonhole shall be centered on each cuff 1 ¼” apart.
- II-A, B**      **Long Sleeves:** Each sleeve shall have a 5” long sleeve placket with a 1” wide top placket and a ½” wide bottom placket. The sleeve is 5” long with top and bottom facings. A vertical buttonhole shall be sewn 2 ½” from top of cuff centered on top placket with matching button centered on bottom.
- Cuffs:** Cuffs shall be 2 ½” in depth with rounded corners ¼” topstitching at bottom and double stitched 3/8” gauge topstitching where cuff joins sleeve. Two horizontal buttons with corresponding horizontal buttonhole shall be centered on each cuff 1” apart.
- \*-C,D,E**      **Short Sleeves:** The sleeve shall be approximately 9” long from the shoulder seam. There shall be a ¾” hem turned to the inside with the folded edge topstitched 1/16” from the upper folded edge. The bottom edge of the sleeve closing seam shall bartacked within 1/8” of the lower edge.
- \***              **Bottoms:** A ¼” rolled hem at the bottom of the garment is preferred.
- \*-A,C,D**      **Military Creases:** There shall be five 1/16” sharp military creases on the shirt. There shall be one crease on each front, centered vertically through pocket and flap. Spacing for military creases on shirt back shall be proportionate to the size of the shirt. For lightweight fabric (4 to 6 ounces) creases must be stitched in; for heavy fabrics (10 ounce) stitches shall be baked in.
- \***              **Patch:** The organizations shoulder patch shall be sewn securely in the center of the left sleeve with the top edge 1 ¼ to 1 ½” below the shoulder seam depending on the garment size. The patch shall be sewn with matching thread and attached so that the edges do not roll-up after washing.

## ATTACHMENT D

### Sizes and Measurements

<b>I-A, B</b>	<b>Sizes:</b>	<u>Neck</u>	<u>Sleeve</u>
		14	31-33
		14.5	31-34
		15	31-35
		15.5	31-36
		16	31-36
		16.5	31-36
		17	31-37
		17.5	31-37
		18	31-36
		18.5	33-37
		19	33-36
		20	33-36
		21	33-36
		22	33-36

**I-C,D,E**    **Sizes:**                    S-4XL

<b>II-A,B</b>	<b>Sizes:</b>	<u>Bust Size</u>	<u>Sleeve</u> (R-Regular, L-Long—L=sleeve length + 1” )
		28	30     R
		30	30     R&L
		32	30     R&L
		34	30     R&L
		36	31     R&L
		38	31     R&L
		40	32     R&L
		42	33     R&L
		44	33     R&L
		46	33     R&L
		48	33     R&L
		50	33     R&L

**II-C,D,E**    **Sizes:**                    28-50 in even sizes only.

\*            **Pressing and Finishing:** Component parts shall be pressed on hot head machines; finished shirt shall be pressed and folded using jet clips or non-corrosive fasteners.



## ATTACHMENT D

**C427 Shirt, Male, Grey 4.25 Oz. 65/35 P/C Poplin, SS, CC with Badge Tab**

**Specifications are identical for the following other components:**

**C421 Shirt, Male, Grey 10 Oz. 65/35 P/R Tropical, LS with Badge Tab**  
**N430 Shirt, Male, Grey 10 Oz. 65/35 P/R Tropical, LS with Badge Tab**  
**N432 Shirt, Male, Grey 4.25 Oz. 65/35 P/C Poplin, SS, CC with Badge Tab**  
**C422 Shirt, Male, Grey 10 Oz. 65/35 P/R Tropical, SS, CC with Badge Tab**  
**N428 Shirt, Male, Grey 10 Oz. 65/35 P/R Tropical, SS, CC with Badge Tab**  
**N600 Shirt, Male, Grey 5.5 Oz. 65/35 P/C Twill, LS without Badge Tab**  
**N431 Shirt, Male, Grey 5.5 Oz. 65/35 P/C Twill, SS, CC, without Badge Tab**  
**C447 Shirt, Female, Grey 10 Oz. 65/35 P/R Tropical, LS with Badge Tab**  
**N456 Shirt, Female, Grey 10 Oz. 65/35 P/R Tropical, LS with Badge Tab**  
**C448 Shirt, Female, Grey 10 Oz. 65/35 P/R Tropical, SS, CC with Badge Tab**  
**N454 Shirt, Female, Grey 10 Oz. 65/35 P/R Tropical, SS, CC with Badge Tab**  
**C453 Shirt, Female, Grey 4.25 Oz. 65/35 P/C Poplin, SS, CC with Badge Tab**  
**N458 Shirt, Female, Grey 4.25 Oz. 65/35 P/C Poplin, SS, CC with Badge Tab**  
**N457 Shirt, Female, Grey 5.5 Oz. 65/35 P/C Twill, LS without Badge Tab**  
**N601 Shirt, Female, Grey 5.5 Oz. 65/35 P/C Twill, SS, CC, without Badge Tab**

**Sample Size:** Male-16x33, Female-36

### GENERAL DESCRIPTION

The shirt is form fitting with two pleated breast pockets with scalloped flaps and shoulder straps. The shirt has military creases, a pencil slot, and a shoulder emblem. Variations of this garment shall include male and female:

Long-vs-short sleeves (LS, SS)

Two-piece shirt collar-vs-convertible collar (2PC, CC)

Tropical weave-vs-poplin-vs-twill (Trop, Pop, Twill)

**TYPE ITEMS: \* - All Items      Type I - Male Items      Type II - Female Items**

<b>CLASSIFICATION</b>		<b>COE # (M/F)</b>	<b>NPS # (M/F)</b>
*	All Items	*	*
A	LS, 2 piece collar w BT, Trop	C421/C447	N430/N456
B	LS, 2 piece collar wo BT, Twill** --		N600/N457
C	SS, CC, w BT, Trop	C422/C448	N428/N454
D	SS, CC, w BT, Pop**	C427/C453	N432/N458
E	SS, CC, wo BT, Twill** --		N431/N601

\*\* see special note under **FRONT**

## ATTACHMENT D

### SALIENT CHARACTERISTICS

#### Components

##### Type-Class

- \*-A, C **Basic Material:** The material shall be shade #51, Nickel Grey or equal 10 Oz. 65/35 polyester/rayon tropical weave matching standard sample.
- \*-D **Basic Material:** The material shall be Nickel grey 4 Oz. 65/35 polyester/cotton poplin weave matching the standard sample.
- \*-B, E **Basic Material:** The material shall be Grey 5.5 Oz. 65/35 polyester/combed cotton twill weave matching Milliken 2640-5598.
- \* **Linings:** Shall have collar and yoke linings that are compatible with the construction of the shirts.
- \* **Thread:** Sewing thread for all operations shall be cotton covered polyester, dyed to match shade of self material, and conforming to ticket numbers 50-2 ply or 50-3 ply.
- \* **Buttons:** Buttons shall be first grade 19 ligne pearlescent plastic buttons and shall match the color of basic material.
- \* **Collar Stays:** The collar stay shall be made of good quality vinyl, attached to the inside of the bottom collar leaf, and come out to the stitching line.
- \* **Labels:** See general reference and requirements sheet.

#### General Instructions

- \* **Cutting:** Collars, bands, pockets, and flaps shall be cut to ensure uniformity.
- \* **Stitching:** A lockstitch (301) shall be used throughout, except inserting the sleeve and side closing operations, which shall be safety stitched (516). All topstitching shall be ¼" from edge. There shall be 10 to 14 stitches per inch required.
- I-A,B **Button Holes For Two-Piece Shirt Collar:** The shirt shall have 7 cut buttonholes down the front. For proper appearance with clip-on tie, the stand shall be fastened with one button so there shall be a tie space of ¼" when collar is buttoned. There shall be 1 cut buttonhole on each shoulder strap and 1 uncut buttonhole on each pocket flap.
- I-C,D,E **Button Holes For Convertible Collar:** The shirt shall have 7 cut buttonholes down the front left facing. The center of the first buttonhole shall be 5/8" from top edge at center front. The center of the second buttonhole on the left facing shall be 2 ½" from the bottom of the top buttonhole. The remaining buttonholes shall be spaced 3 ¾" apart. There shall be 1 cut buttonhole on each shoulder strap, 1 uncut buttonhole on each pocket flap, and 2 cut buttonholes on each cuff. A vertical cut buttonhole shall be sewn on the sleeve placket opening 2 ½" from the top of the cuff, centered on the top placket with a matching button centered on bottom placket.
- II-A, B **Button Holes For Two-Piece Shirt Collar:** The shirt shall have 6 cut buttonholes down the front. The center of the first buttonhole shall be placed on the collar band 1" from edge. The center of the second buttonhole which is on the center plait shall be 3 ¼" from the bottom of the collar. For proper appearance with clip-on tie, the stand shall be fastened with one button so there shall be a tie space of ¼" when collar is buttoned. The remaining buttonholes shall be spaced 3 ½" apart. There shall be 1 cut buttonhole on each shoulder strap and 1 uncut buttonhole on each pocket flap.

## ATTACHMENT D

- II-C,D,E Button Holes For Convertible Collar:** The shirt shall have 6 cut buttonholes down the front right facing. The center of the first buttonhole shall be  $\frac{1}{2}$ " from top edge at center front. The center of the second buttonhole on the right facing shall be  $2\frac{1}{2}$ " from the bottom of the top buttonhole. The remaining buttonholes shall be spaced  $3\frac{1}{2}$ " apart. There shall be 1 cut buttonhole on each shoulder strap and 1 uncut buttonhole on each pocket flap.

### Detail Design Characteristics

- I-A, B Two-Piece Shirt Collar:** The garment shall have a two piece shirt collar. The points on the collar leaf shall measure  $3\frac{1}{4}$ " in length and be topstitched  $\frac{1}{4}$ " from the edge. The collar leaf shall be  $1\frac{3}{4}$ " from roll line to bottom edge of collar at center back. The collar stand shall measure  $1\frac{5}{16}$ " at center back and be topstitched  $\frac{1}{16}$ " from top and bottom edges. For proper appearance with clip on tie, the stand shall be fastened with one button so that there shall be a tie space of  $\frac{1}{4}$ " when the collar is buttoned. The collar's interlining shall be a permanent press finish of 250 weight or equal.
- II-A, B Two-Piece Shirt Collar:** The garment shall have a two piece shirt collar. The points on the collar leaf shall measure  $2\frac{7}{8}$ " in length and be topstitched  $\frac{1}{4}$ " from the edge. The collar leaf shall be  $1\frac{1}{2}$ " from roll line to bottom edge of collar at center back. The collar stand shall measure  $1\frac{5}{16}$ " at center back and be topstitched  $\frac{1}{16}$ " from top and bottom edges. For proper appearance with clip on tie, the stand shall be fastened with one button so that there shall be a tie space of  $\frac{1}{4}$ " when the collar is buttoned. The collar's interlining shall be a permanent press finish of 250 weight or equal.
- I-C,D,E Convertible Collar:** The garment shall have a one piece convertible collar. The points on the collar shall measure  $3\frac{1}{4}$ " in length,  $3\frac{1}{4}$ " at center back, and be topstitched  $\frac{1}{4}$ " from the edge. The collar's interlining shall be a permanent press finish of 250 weight or equal.
- II-C,D,E Convertible Collar:** The garment shall have a one-piece convertible collar. The points on the collar shall measure  $2\frac{7}{8}$ " in length,  $2\frac{7}{8}$ " at center back, and be topstitched  $\frac{1}{4}$ " from the edge. The collar's interlining shall be a permanent press finish of 250 weight or equal.
- I-A,C,D Shoulder Straps:** Shoulder straps shall be 2" at sleeve head and tapered to  $1\frac{3}{4}$ "- $1\frac{1}{2}$ ". The straps shall be stitched to the shoulder by a single needle machine forming an "X" beginning at the sleeve head and extending for approximately one-half the length of the strap. Length of straps shall be graduated conforming to size of shirt and set not more than  $\frac{1}{2}$ " from folded collar. Buttons attached to yokes shall match shoulder strap buttonholes at pointed ends.
- I-B, E Shoulder Straps:** Shoulder straps shall be 2" at sleeve head and tapered to  $1\frac{3}{4}$ "- $1\frac{1}{2}$ ". The straps shall be stitched to the shoulder by a single needle machine forming an "X" beginning at the sleeve head and extending for approximately one-half the length of the strap. Length of straps shall be graduated conforming to size of shirt and set not more than  $\frac{1}{2}$ " from folded collar. Buttons attached to yokes shall match shoulder strap buttonholes at pointed ends. **The shoulder straps shall be sewn down around the edges.**
- II-A,C,D Shoulder Straps:** Shoulder straps shall be  $1\frac{5}{8}$ " at sleeve head and tapered to  $1\frac{3}{8}$ "- $1\frac{1}{4}$ ". The straps shall be stitched to the shoulder by a single needle machine forming an "X" beginning at the sleeve head and extending for approximately one-half the length of the strap. Length of straps shall be graduated conforming to size of shirt and set not more than  $\frac{1}{2}$ " from folded collar. Buttons attached to yokes shall match shoulder strap buttonholes at pointed ends.
- II-B, E Shoulder Straps:** Shoulder straps shall be  $1\frac{5}{8}$ " at sleeve head and tapered to  $1\frac{3}{8}$ "- $1\frac{1}{4}$ ". The straps shall be stitched to the shoulder by a single needle machine forming an "X" beginning at the sleeve head and extending for approximately one-half the length of the strap. Length of straps shall be graduated conforming to size of shirt and set not more than  $\frac{1}{2}$ " from folded collar. Buttons attached to yokes shall match shoulder strap buttonholes at pointed ends. **The shoulder straps shall be sewn down around the edges.**

## ATTACHMENT D

- I-A,B Front for Two-Piece Shirt Collar:** Each front shall have a facing 2 ½" in width extending from the neckline to the bottom of the shirt, and provided by a turn under of material. The left front shall contain 6 vertical buttonholes placed ¾" from the edge of the plait and be 3 ½" apart. There shall be one button on the collar stand placed ¾" from edge. The button stand shall be 7/8" wide and be placed on the left side of the shirt. The buttons shall be securely attached to the button stand corresponding to the buttonholes on the facing.
- I-B \*\*Add 2" to shirt length.**
- II-A, B Front for Two-Piece Shirt Collar:** Each front shall have a facing 2 ½" in width extending from the neckline to the bottom of the shirt, and provided by a turn under of material. The right front shall contain 6 vertical buttonholes placed ¾" from the edge of the plait and be 3 ½" apart. There shall be one button on the collar stand placed ¾" from edge. The button stand shall be 7/8" wide and be placed on the right side of the shirt. The buttons shall be securely attached to the button stand corresponding to the buttonholes on the facing.
- I-B \*\*Add 2" to shirt length.**
- II-C,D,E Front for Convertible Collar:** Each front shall have a 3" facing provided by a turn under of material. The facings shall extend from the neckline to the bottom of the shirt. The left front shall contain 7 vertical cut buttonholes placed ¾" from the edge. The center of the first buttonhole shall be 5/8" from the top edge at center front. The second buttonhole shall be positioned 2 ½" from the top button with remaining buttonholes spaced 3 ¾" apart. The buttons shall be securely attached to the button stand corresponding to the buttonholes on the facing.
- I-D, E \*\*Add 2" to shirt length.**
- II-C,D,E Front for Convertible Collar:** Each front shall have a ½" facing provided by a turn under of material. The facings shall extend from the neckline to the bottom of the shirt. The right front shall contain 6 vertical buttonholes placed ¾" from the edge. The center of the first buttonhole shall be ½" from the top edge center front. The second buttonhole shall be positioned 2 ½" from the top button with remaining buttonholes spaced 3 ½" apart. The buttons shall be securely attached to the button stand corresponding to the buttonholes on the facing.
- II-D, E \*\*Add 2" to shirt length.**
- \*-A,C,D Badge Reinforcement:** The shirt shall have a 1" wide inside sling type badge holder extending from the shoulder joining seam to pocket of the left front and constructed of the basic material. Two small, uncut buttonholes shall be 1 1/8" apart with the lower buttonhole approximately 1 ¼" above top of left pocket flap.
- \* Pocket Flaps:** There shall be two deep scalloped flaps, 5 7/8" wide, 2 ¼" at sides, and 2 ¾" at center. There shall be a 1 ½" pencil opening through the left flap and a vertical uncut buttonhole in the center of the flap with a button sewn on top of the buttonhole. The flaps shall be topstitched 1/8" from edge and attached to the shirt front with a double row, ¼" gauge stitching. The underside of the flap shall have hook and pile tape, approximately 1" long by 3/8" wide, positioned on outer points of both pocket flaps.
- \* Pockets:** Both pockets shall have 1 ½" centered pleats stitched to prevent spreading. Pockets shall be 5 ½" wide x 5 ¾" deep with bottom mitered corners. The left pocket shall have a pencil slot 1 ½" from center edge. Upper hem shall be ½" wide. Pockets shall be topstitched 1/16" gauge with ¾" triangle tacks at upper corners. Both pockets shall have an approximately 1" long by 3/8" wide piece of hook and pile tape positioned to correspond with the hook and pile tape on each outer scalloped flap point.

## ATTACHMENT D

- I-\***      **Yoke & Back:** The yoke shall be constructed of two pieces. The outside yoke shall be made of the same fabric as the outer shell of the garment and the inside yoke shall be made of the lining fabric. The yoke shall be 3 ½” at center back and 3 ¾” at armhole.
- II-\***      **Yoke & Back:** The yoke shall be constructed of two pieces. The outside yoke shall be made of the same fabric as the outer shell of the garment and the inside yoke shall be made of the lining fabric. The yoke shall be 3 ½” at center back and 3 ¾” at armhole.
- I-A, B**      **Long Sleeves:** Each sleeve shall have a 5” long sleeve placket with a 1” wide top placket and a ½” wide bottom placket. The sleeve placket is 5” long with top and bottom facings. A vertical buttonhole shall be sewn 2 ½” from top of cuff centered on top placket with matching button centered on bottom.
- Cuffs:** Cuffs shall be 2 ¾” in depth with rounded corners ¼” topstitching at bottom and double stitched 3/8” gauge topstitching where cuff joins sleeve. Two horizontal buttons with corresponding horizontal buttonhole shall be centered on each cuff 1 ¼” apart.
- II-A, B**      **Long Sleeves:** Each sleeve shall have a 5” long sleeve placket with a 1” wide top placket and a ½” wide bottom placket. The sleeve is 5” long with top and bottom facings. A vertical buttonhole shall be sewn 2 ½” from top of cuff centered on top placket with matching button centered on bottom.
- Cuffs:** Cuffs shall be 2 ½” in depth with rounded corners ¼” topstitching at bottom and double stitched 3/8” gauge topstitching where cuff joins sleeve. Two horizontal buttons with corresponding horizontal buttonhole shall be centered on each cuff 1” apart.
- \*-C,D,E**      **Short Sleeves:** The sleeve shall be approximately 9” long from the shoulder seam. There shall be a ¾” hem turned to the inside with the folded edge topstitched 1/16” from the upper folded edge. The bottom edge of the sleeve closing seam shall bartacked within 1/8” of the lower edge.
- \***              **Bottoms:** A ¼” rolled hem at the bottom of the garment is preferred.
- \*-A,C,D**      **Military Creases:** There shall be five 1/16” sharp military creases on the shirt. There shall be one crease on each front, centered vertically through pocket and flap. Spacing for military creases on shirt back shall be proportionate to the size of the shirt. For lightweight fabric (4 to 6 ounces) creases must be stitched in; for heavy fabrics (10 ounce) stitches shall be baked in.
- \***              **Patch:** The organizations shoulder patch shall be sewn securely in the center of the left sleeve with the top edge 1 ¼ to 1 ½” below the shoulder seam depending on the garment size. The patch shall be sewn with matching thread and attached so that the edges do not roll-up after washing.

## ATTACHMENT D

### Sizes and Measurements

<b>I-A, B</b>	<b>Sizes:</b>	<u>Neck</u>	<u>Sleeve</u>
		14	31-33
		14.5	31-34
		15	31-35
		15.5	31-36
		16	31-36
		16.5	31-36
		17	31-37
		17.5	31-37
		18	31-36
		18.5	33-37
		19	33-36
		20	33-36
		21	33-36
		22	33-36

**I-C,D,E**    **Sizes:**            S-4XL

<b>II-A,B</b>	<b>Sizes:</b>	<u>Bust Size</u>	<u>Sleeve</u> (R-Regular, L-Long—L=sleeve length + 1” )
		28	30    R
		30	30    R&L
		32	30    R&L
		34	30    R&L
		36	31    R&L
		38	31    R&L
		40	32    R&L
		42	33    R&L
		44	33    R&L
		46	33    R&L
		48	33    R&L
		50	33    R&L

**II-C,D,E**    **Sizes:**            28-50 in even sizes only.

\*        **Pressing and Finishing:** Component parts shall be pressed on hot head machines; finished shirt shall be pressed and folded using jet clips or non-corrosive fasteners.

## ATTACHMENT D

**C447 Shirt, Female, Grey 10 Oz. 65/35 P/R Tropical, LS with Badge Tab**

**Specifications are identical for the following other components:**

**C421 Shirt, Male, Grey 10 Oz. 65/35 P/R Tropical, LS with Badge Tab**  
**N430 Shirt, Male, Grey 10 Oz. 65/35 P/R Tropical, LS with Badge Tab**  
**N432 Shirt, Male, Grey 4.25 Oz. 65/35 P/C Poplin, SS, CC with Badge Tab**  
**C422 Shirt, Male, Grey 10 Oz. 65/35 P/R Tropical, SS, CC with Badge Tab**  
**N428 Shirt, Male, Grey 10 Oz. 65/35 P/R Tropical, SS, CC with Badge Tab**  
**C427 Shirt, Male, Grey 4.25 Oz. 65/35 P/C Poplin, SS, CC with Badge Tab**  
**N600 Shirt, Male, Grey 5.5 Oz. 65/35 P/C Twill, LS without Badge Tab**  
**N431 Shirt, Male, Grey 5.5 Oz. 65/35 P/C Twill, SS, CC, without Badge Tab**  
**N456 Shirt, Female, Grey 10 Oz. 65/35 P/R Tropical, LS with Badge Tab**  
**C448 Shirt, Female, Grey 10 Oz. 65/35 P/R Tropical, SS, CC with Badge Tab**  
**N454 Shirt, Female, Grey 10 Oz. 65/35 P/R Tropical, SS, CC with Badge Tab**  
**C453 Shirt, Female, Grey 4.25 Oz. 65/35 P/C Poplin, SS, CC with Badge Tab**  
**N458 Shirt, Female, Grey 4.25 Oz. 65/35 P/C Poplin, SS, CC with Badge Tab**  
**N457 Shirt, Female, Grey 5.5 Oz. 65/35 P/C Twill, LS without Badge Tab**  
**N601 Shirt, Female, Grey 5.5 Oz. 65/35 P/C Twill, SS, CC, without Badge Tab**

**Sample Size:** Male-16x33, Female-36

### GENERAL DESCRIPTION

The garment is form fitting with two pleated breast pockets with scalloped flaps and shoulder straps. The shirt has military creases, a pencil slot, and a shoulder emblem. Variations of this garment shall include male and female:

Long-vs-short sleeves (LS, SS)

Two-piece shirt collar-vs-convertible collar (2PC, CC)

Tropical weave-vs-poplin-vs-twill (Trop, Pop, Twill)

**TYPE ITEMS: \* - All Items      Type I - Male Items      Type II - Female Items**

<b>CLASSIFICATION</b>		<b>COE # (M/F)</b>	<b>NPS # (M/F)</b>
*	All Items	*	*
A	LS, 2 piece collar w BT, Trop	C421/C447	N430/N456
B	LS, 2 piece collar wo BT, Twill**	--	N600/N457
C	SS, CC, w BT, Trop	C422/C448	N428/N454
D	SS, CC, w BT, Pop**	C427/C453	N432/N458
E	SS, CC, wo BT, Twill**	--	N431/N601

\*\* see special note under **FRONT**

## ATTACHMENT D

### SALIENT CHARACTERISTICS

#### Components

##### Type-Class

- \*-A, C **Basic Material:** The material shall be shade #51, Nickel Grey or equal 10 Oz. 65/35 polyester/rayon tropical weave matching standard sample.
- \*-D **Basic Material:** The material shall be Nickel grey 4 Oz. 65/35 polyester/cotton poplin weave matching the standard sample.
- \*-B, E **Basic Material:** The material shall be Grey 5.5 Oz. 65/35 polyester/combed cotton twill weave matching Milliken 2640-5598.
- \* **Linings:** Shall have collar and yoke linings that are compatible with the construction of the shirts.
- \* **Thread:** Sewing thread for all operations shall be cotton covered polyester, dyed to match shade of self material, and conforming to ticket numbers 50-2 ply or 50-3 ply.
- \* **Buttons:** Buttons shall be first grade 19 ligne pearlescent plastic buttons and shall match the color of basic material.
- \* **Collar Stays:** The collar stay shall be made of good quality vinyl, attached to the inside of the bottom collar leaf, and come out to the stitching line.
- \* **Labels:** See general reference and requirements sheet.

#### General Instructions

- \* **Cutting:** Collars, bands, pockets, and flaps shall be cut to ensure uniformity.
- \* **Stitching:** A lockstitch (301) shall be used throughout, except inserting the sleeve and side closing operations, which shall be safety stitched (516). All topstitching shall be ¼" from edge. There shall be 10 to 14 stitches per inch required.
- I-A,B **Button Holes For Two-Piece Shirt Collar:** The shirt shall have 7 cut buttonholes down the front. For proper appearance with clip-on tie, the stand shall be fastened with one button so there shall be a tie space of ¼" when collar is buttoned. There shall be 1 cut buttonhole on each shoulder strap and 1 uncut buttonhole on each pocket flap.
- I-C,D,E **Button Holes For Convertible Collar:** The shirt shall have 7 cut buttonholes down the front left facing. The center of the first buttonhole shall be 5/8" from top edge at center front. The center of the second buttonhole on the left facing shall be 2 ½" from the bottom of the top buttonhole. The remaining buttonholes shall be spaced 3 ¾" apart. There shall be 1 cut buttonhole on each shoulder strap, 1 uncut buttonhole on each pocket flap, and 2 cut buttonholes on each cuff. A vertical cut buttonhole shall be sewn on the sleeve placket opening 2 ½" from the top of the cuff, centered on the top placket with a matching button centered on bottom placket.
- II-A, B **Button Holes For Two-Piece Shirt Collar:** The shirt shall have 6 cut buttonholes down the front. The center of the first buttonhole shall be placed on the collar band 1" from edge. The center of the second buttonhole which is on the center plait shall be 3 ¼" from the bottom of the collar. For proper appearance with clip-on tie, the stand shall be fastened with one button so there shall be a tie space of ¼" when collar is buttoned. The remaining buttonholes shall be spaced 3 ½" apart. There shall be 1 cut buttonhole on each shoulder strap and 1 uncut buttonhole on each pocket flap.



## ATTACHMENT D

- II-C,D,E Button Holes For Convertible Collar:** The shirt shall have 6 cut buttonholes down the front right facing. The center of the first buttonhole shall be  $\frac{1}{2}$ " from top edge at center front. The center of the second buttonhole on the right facing shall be  $2\frac{1}{2}$ " from the bottom of the top buttonhole. The remaining buttonholes shall be spaced  $3\frac{1}{2}$ " apart. There shall be 1 cut buttonhole on each shoulder strap and 1 uncut buttonhole on each pocket flap.

### Detail Design Characteristics

- I-A, B Two-Piece Shirt Collar:** The garment shall have a two piece shirt collar. The points on the collar leaf shall measure  $3\frac{1}{4}$ " in length and be topstitched  $\frac{1}{4}$ " from the edge. The collar leaf shall be  $1\frac{3}{4}$ " from roll line to bottom edge of collar at center back. The collar stand shall measure  $1\frac{5}{16}$ " at center back and be topstitched  $\frac{1}{16}$ " from top and bottom edges. For proper appearance with clip on tie, the stand shall be fastened with one button so that there shall be a tie space of  $\frac{1}{4}$ " when the collar is buttoned. The collar's interlining shall be a permanent press finish of 250 weight or equal.
- II-A, B Two-Piece Shirt Collar:** The garment shall have a two piece shirt collar. The points on the collar leaf shall measure  $2\frac{7}{8}$ " in length and be topstitched  $\frac{1}{4}$ " from the edge. The collar leaf shall be  $1\frac{1}{2}$ " from roll line to bottom edge of collar at center back. The collar stand shall measure  $1\frac{5}{16}$ " at center back and be topstitched  $\frac{1}{16}$ " from top and bottom edges. For proper appearance with clip on tie, the stand shall be fastened with one button so that there shall be a tie space of  $\frac{1}{4}$ " when the collar is buttoned. The collar's interlining shall be a permanent press finish of 250 weight or equal.
- I-C,D,E Convertible Collar:** The garment shall have a one piece convertible collar. The points on the collar shall measure  $3\frac{1}{4}$ " in length,  $3\frac{1}{4}$ " at center back, and be topstitched  $\frac{1}{4}$ " from the edge. The collar's interlining shall be a permanent press finish of 250 weight or equal.
- II-C,D,E Convertible Collar:** The garment shall have a one-piece convertible collar. The points on the collar shall measure  $2\frac{7}{8}$ " in length,  $2\frac{7}{8}$ " at center back, and be topstitched  $\frac{1}{4}$ " from the edge. The collar's interlining shall be a permanent press finish of 250 weight or equal.
- I-A,C,D Shoulder Straps:** Shoulder straps shall be 2" at sleeve head and tapered to  $1\frac{3}{4}$ "- $1\frac{1}{2}$ ". The straps shall be stitched to the shoulder by a single needle machine forming an "X" beginning at the sleeve head and extending for approximately one-half the length of the strap. Length of straps shall be graduated conforming to size of shirt and set not more than  $\frac{1}{2}$ " from folded collar. Buttons attached to yokes shall match shoulder strap buttonholes at pointed ends.
- I-B, E Shoulder Straps:** Shoulder straps shall be 2" at sleeve head and tapered to  $1\frac{3}{4}$ "- $1\frac{1}{2}$ ". The straps shall be stitched to the shoulder by a single needle machine forming an "X" beginning at the sleeve head and extending for approximately one-half the length of the strap. Length of straps shall be graduated conforming to size of shirt and set not more than  $\frac{1}{2}$ " from folded collar. Buttons attached to yokes shall match shoulder strap buttonholes at pointed ends. **The shoulder straps shall be sewn down around the edges.**
- II-A,C,D Shoulder Straps:** Shoulder straps shall be  $1\frac{5}{8}$ " at sleeve head and tapered to  $1\frac{3}{8}$ "- $1\frac{1}{4}$ ". The straps shall be stitched to the shoulder by a single needle machine forming an "X" beginning at the sleeve head and extending for approximately one-half the length of the strap. Length of straps shall be graduated conforming to size of shirt and set not more than  $\frac{1}{2}$ " from folded collar. Buttons attached to yokes shall match shoulder strap buttonholes at pointed ends.
- II-B, E Shoulder Straps:** Shoulder straps shall be  $1\frac{5}{8}$ " at sleeve head and tapered to  $1\frac{3}{8}$ "- $1\frac{1}{4}$ ". The straps shall be stitched to the shoulder by a single needle machine forming an "X" beginning at the sleeve head and extending for approximately one-half the length of the strap. Length of straps shall be graduated conforming to size of shirt and set not more than  $\frac{1}{2}$ " from folded collar. Buttons attached to yokes shall match shoulder strap buttonholes at pointed ends. **The shoulder straps shall be sewn down around the edges.**

## ATTACHMENT D

- I-A,B Front for Two-Piece Shirt Collar:** Each front shall have a facing 2 ½" in width extending from the neckline to the bottom of the shirt, and provided by a turn under of material. The left front shall contain 6 vertical buttonholes placed ¾" from the edge of the plait and be 3 ½" apart. There shall be one button on the collar stand placed ¾" from edge. The button stand shall be 7/8" wide and be placed on the left side of the shirt. The buttons shall be securely attached to the button stand corresponding to the buttonholes on the facing.
- I-B \*\*Add 2" to shirt length.**
- II-A, B Front for Two-Piece Shirt Collar:** Each front shall have a facing 2 ½" in width extending from the neckline to the bottom of the shirt, and provided by a turn under of material. The right front shall contain 6 vertical buttonholes placed ¾" from the edge of the plait and be 3 ½" apart. There shall be one button on the collar stand placed ¾" from edge. The button stand shall be 7/8" wide and be placed on the right side of the shirt. The buttons shall be securely attached to the button stand corresponding to the buttonholes on the facing.
- I-B \*\*Add 2" to shirt length.**
- II-C,D,E Front for Convertible Collar:** Each front shall have a 3" facing provided by a turn under of material. The facings shall extend from the neckline to the bottom of the shirt. The left front shall contain 7 vertical cut buttonholes placed ¾" from the edge. The center of the first buttonhole shall be 5/8" from the top edge at center front. The second buttonhole shall be positioned 2 ½" from the top button with remaining buttonholes spaced 3 ¾" apart. The buttons shall be securely attached to the button stand corresponding to the buttonholes on the facing.
- I-D, E \*\*Add 2" to shirt length.**
- II-C,D,E Front for Convertible Collar:** Each front shall have a ½" facing provided by a turn under of material. The facings shall extend from the neckline to the bottom of the shirt. The right front shall contain 6 vertical buttonholes placed ¾" from the edge. The center of the first buttonhole shall be ½" from the top edge center front. The second buttonhole shall be positioned 2 ½" from the top button with remaining buttonholes spaced 3 ½" apart. The buttons shall be securely attached to the button stand corresponding to the buttonholes on the facing.
- II-D, E \*\*Add 2" to shirt length.**
- \*-A,C,D Badge Reinforcement:** The shirt shall have a 1" wide inside sling type badge holder extending from the shoulder joining seam to pocket of the left front and constructed of the basic material. Two small, uncut buttonholes shall be 1 1/8" apart with the lower buttonhole approximately 1 ¼" above top of left pocket flap.
- \* Pocket Flaps:** There shall be two deep scalloped flaps, 5 7/8" wide, 2 ¼" at sides, and 2 ¾" at center. There shall be a 1 ½" pencil opening through the left flap and a vertical uncut buttonhole in the center of the flap with a button sewn on top of the buttonhole. The flaps shall be topstitched 1/8" from edge and attached to the shirt front with a double row, ¼" gauge stitching. The underside of the flap shall have hook and pile tape, approximately 1" long by 3/8" wide, positioned on outer points of both pocket flaps.
- \* Pockets:** Both pockets shall have 1 ½" centered pleats stitched to prevent spreading. Pockets shall be 5 ½" wide x 5 ¾" deep with bottom mitered corners. The left pocket shall have a pencil slot 1 ½" from center edge. Upper hem shall be ½" wide. Pockets shall be topstitched 1/16" gauge with ¾" triangle tacks at upper corners. Both pockets shall have an approximately 1" long by 3/8" wide piece of hook and pile tape positioned to correspond with the hook and pile tape on each outer scalloped flap point.

## ATTACHMENT D

- I-\***      **Yoke & Back:** The yoke shall be constructed of two pieces. The outside yoke shall be made of the same fabric as the outer shell of the garment and the inside yoke shall be made of the lining fabric. The yoke shall be 3 ½” at center back and 3 ¾” at armhole.
- II-\***      **Yoke & Back:** The yoke shall be constructed of two pieces. The outside yoke shall be made of the same fabric as the outer shell of the garment and the inside yoke shall be made of the lining fabric. The yoke shall be 3 ½” at center back and 3 ¾” at armhole.
- I-A, B**      **Long Sleeves:** Each sleeve shall have a 5” long sleeve placket with a 1” wide top placket and a ½” wide bottom placket. The sleeve placket is 5” long with top and bottom facings. A vertical buttonhole shall be sewn 2 ½” from top of cuff centered on top placket with matching button centered on bottom.
- Cuffs:** Cuffs shall be 2 ¾” in depth with rounded corners ¼” topstitching at bottom and double stitched 3/8” gauge topstitching where cuff joins sleeve. Two horizontal buttons with corresponding horizontal buttonhole shall be centered on each cuff 1 ¼” apart.
- II-A, B**      **Long Sleeves:** Each sleeve shall have a 5” long sleeve placket with a 1” wide top placket and a ½” wide bottom placket. The sleeve is 5” long with top and bottom facings. A vertical buttonhole shall be sewn 2 ½” from top of cuff centered on top placket with matching button centered on bottom.
- Cuffs:** Cuffs shall be 2 ½” in depth with rounded corners ¼” topstitching at bottom and double stitched 3/8” gauge topstitching where cuff joins sleeve. Two horizontal buttons with corresponding horizontal buttonhole shall be centered on each cuff 1” apart.
- \*-C,D,E**      **Short Sleeves:** The sleeve shall be approximately 9” long from the shoulder seam. There shall be a ¾” hem turned to the inside with the folded edge topstitched 1/16” from the upper folded edge. The bottom edge of the sleeve closing seam shall bartacked within 1/8” of the lower edge.
- \***              **Bottoms:** A ¼” rolled hem at the bottom of the garment is preferred.
- \*-A,C,D**      **Military Creases:** There shall be five 1/16” sharp military creases on the shirt. There shall be one crease on each front, centered vertically through pocket and flap. Spacing for military creases on shirt back shall be proportionate to the size of the shirt. For lightweight fabric (4 to 6 ounces) creases must be stitched in; for heavy fabrics (10 ounce) stitches shall be baked in.
- \***              **Patch:** The organizations shoulder patch shall be sewn securely in the center of the left sleeve with the top edge 1 ¼ to 1 ½” below the shoulder seam depending on the garment size. The patch shall be sewn with matching thread and attached so that the edges do not roll-up after washing.

### Sizes and Measurements

I-A, B	Sizes:	Neck	Sleeve
		14	31-33
		14.5	31-34
		15	31-35
		15.5	31-36
		16	31-36
		16.5	31-36
		17	31-37
		17.5	31-37
		18	31-36
		18.5	33-37
		19	33-36
		20	33-36
		21	33-36
		22	33-36

## ATTACHMENT D

**I-C,D,E    Sizes:**                    S-4XL

<b>II-A,B    Sizes:</b>	<u>Bust Size</u>	<u>Sleeve</u> (R-Regular, L-Long—L=sleeve length + 1" )
	28	30    R
	30	30    R&L
	32	30    R&L
	34	30    R&L
	36	31    R&L
	38	31    R&L
	40	32    R&L
	42	33    R&L
	44	33    R&L
	46	33    R&L
	48	33    R&L
	50	33    R&L

**II-C,D,E    Sizes:**                    28-50 in even sizes only.

\*            **Pressing and Finishing:** Component parts shall be pressed on hot head machines; finished shirt shall be pressed and folded using jet clips or non-corrosive fasteners.

## ATTACHMENT D

**C448 Shirt, Female, Grey 10 Oz. 65/35 P/R Tropical, SS, CC with Badge Tab**

**Specifications are identical for the following other components:**

**C421 Shirt, Male, Grey 10 Oz. 65/35 P/R Tropical, LS with Badge Tab**  
**N430 Shirt, Male, Grey 10 Oz. 65/35 P/R Tropical, LS with Badge Tab**  
**N432 Shirt, Male, Grey 4.25 Oz. 65/35 P/C Poplin, SS, CC with Badge Tab**  
**C422 Shirt, Male, Grey 10 Oz. 65/35 P/R Tropical, SS, CC with Badge Tab**  
**N428 Shirt, Male, Grey 10 Oz. 65/35 P/R Tropical, SS, CC with Badge Tab**  
**C427 Shirt, Male, Grey 4.25 Oz. 65/35 P/C Poplin, SS, CC with Badge Tab**  
**N600 Shirt, Male, Grey 5.5 Oz. 65/35 P/C Twill, LS without Badge Tab**  
**N431 Shirt, Male, Grey 5.5 Oz. 65/35 P/C Twill, SS, CC, without Badge Tab**  
**C447 Shirt, Female, Grey 10 Oz. 65/35 P/R Tropical, LS with Badge Tab**  
**N456 Shirt, Female, Grey 10 Oz. 65/35 P/R Tropical, LS with Badge Tab**  
**N454 Shirt, Female, Grey 10 Oz. 65/35 P/R Tropical, SS, CC with Badge Tab**  
**C453 Shirt, Female, Grey 4.25 Oz. 65/35 P/C Poplin, SS, CC with Badge Tab**  
**N458 Shirt, Female, Grey 4.25 Oz. 65/35 P/C Poplin, SS, CC with Badge Tab**  
**N457 Shirt, Female, Grey 5.5 Oz. 65/35 P/C Twill, LS without Badge Tab**  
**N601 Shirt, Female, Grey 5.5 Oz. 65/35 P/C Twill, SS, CC, without Badge Tab**

**Sample Size:** Male-16x33, Female-36

### GENERAL DESCRIPTION

The garment is form fitting with two pleated breast pockets with scalloped flaps and shoulder straps. The shirt has military creases, a pencil slot, and a shoulder emblem. Variations of this garment shall include male and female:

Long-vs-short sleeves (LS, SS)

Two-piece shirt collar-vs-convertible collar (2PC, CC)

Tropical weave-vs-poplin-vs-twill (Trop, Pop, Twill)

**TYPE ITEMS: \* - All Items      Type I - Male Items      Type II - Female Items**

<b>CLASSIFICATION</b>		<b>COE # (M/F)</b>	<b>NPS # (M/F)</b>
*	All Items	*	*
A	LS, 2 piece collar w BT, Trop	C421/C447	N430/N456
B	LS, 2 piece collar wo BT, Twill**	--	N600/N457
C	SS, CC, w BT, Trop	C422/C448	N428/N454
D	SS, CC, w BT, Pop**	C427/C453	N432/N458
E	SS, CC, wo BT, Twill**	--	N431/N601

\*\* see special note under **FRONT**

## ATTACHMENT D

### SALIENT CHARACTERISTICS

#### Components

##### Type-Class

- \*-A, C **Basic Material:** The material shall be shade #51, Nickel Grey or equal 10 Oz. 65/35 polyester/rayon tropical weave matching standard sample.
- \*-D **Basic Material:** The material shall be Nickel grey 4 Oz. 65/35 polyester/cotton poplin weave matching the standard sample.
- \*-B, E **Basic Material:** The material shall be Grey 5.5 Oz. 65/35 polyester/combed cotton twill weave matching Milliken 2640-5598.
- \* **Linings:** Shall have collar and yoke linings that are compatible with the construction of the shirts.
- \* **Thread:** Sewing thread for all operations shall be cotton covered polyester, dyed to match shade of self material, and conforming to ticket numbers 50-2 ply or 50-3 ply.
- \* **Buttons:** Buttons shall be first grade 19 ligne pearlescent plastic buttons and shall match the color of basic material.
- \* **Collar Stays:** The collar stay shall be made of good quality vinyl, attached to the inside of the bottom collar leaf, and come out to the stitching line.
- \* **Labels:** See general reference and requirements sheet.

#### General Instructions

- \* **Cutting:** Collars, bands, pockets, and flaps shall be cut to ensure uniformity.
- \* **Stitching:** A lockstitch (301) shall be used throughout, except inserting the sleeve and side closing operations, which shall be safety stitched (516). All topstitching shall be ¼" from edge. There shall be 10 to 14 stitches per inch required.
- I-A,B **Button Holes For Two-Piece Shirt Collar:** The shirt shall have 7 cut buttonholes down the front. For proper appearance with clip-on tie, the stand shall be fastened with one button so there shall be a tie space of ¼" when collar is buttoned. There shall be 1 cut buttonhole on each shoulder strap and 1 uncut buttonhole on each pocket flap.
- I-C,D,E **Button Holes For Convertible Collar:** The shirt shall have 7 cut buttonholes down the front left facing. The center of the first buttonhole shall be 5/8" from top edge at center front. The center of the second buttonhole on the left facing shall be 2 ½" from the bottom of the top buttonhole. The remaining buttonholes shall be spaced 3 ¾" apart. There shall be 1 cut buttonhole on each shoulder strap, 1 uncut buttonhole on each pocket flap, and 2 cut buttonholes on each cuff. A vertical cut buttonhole shall be sewn on the sleeve placket opening 2 ½" from the top of the cuff, centered on the top placket with a matching button centered on bottom placket.
- II-A, B **Button Holes For Two-Piece Shirt Collar:** The shirt shall have 6 cut buttonholes down the front. The center of the first buttonhole shall be placed on the collar band 1" from edge. The center of the second buttonhole which is on the center plait shall be 3 ¼" from the bottom of the collar. For proper appearance with clip-on tie, the stand shall be fastened with one button so there shall be a tie space of ¼" when collar is buttoned. The remaining buttonholes shall be spaced 3 ½" apart. There shall be 1 cut buttonhole on each shoulder strap and 1 uncut buttonhole on each pocket flap.

## ATTACHMENT D

- II-C,D,E Button Holes For Convertible Collar:** The shirt shall have 6 cut buttonholes down the front right facing. The center of the first buttonhole shall be  $\frac{1}{2}$ " from top edge at center front. The center of the second buttonhole on the right facing shall be  $2\frac{1}{2}$ " from the bottom of the top buttonhole. The remaining buttonholes shall be spaced  $3\frac{1}{2}$ " apart. There shall be 1 cut buttonhole on each shoulder strap and 1 uncut buttonhole on each pocket flap.

### Detail Design Characteristics

- I-A, B Two-Piece Shirt Collar:** The garment shall have a two piece shirt collar. The points on the collar leaf shall measure  $3\frac{1}{4}$ " in length and be topstitched  $\frac{1}{4}$ " from the edge. The collar leaf shall be  $1\frac{3}{4}$ " from roll line to bottom edge of collar at center back. The collar stand shall measure  $1\frac{5}{16}$ " at center back and be topstitched  $\frac{1}{16}$ " from top and bottom edges. For proper appearance with clip on tie, the stand shall be fastened with one button so that there shall be a tie space of  $\frac{1}{4}$ " when the collar is buttoned. The collar's interlining shall be a permanent press finish of 250 weight or equal.
- II-A, B Two-Piece Shirt Collar:** The garment shall have a two piece shirt collar. The points on the collar leaf shall measure  $2\frac{7}{8}$ " in length and be topstitched  $\frac{1}{4}$ " from the edge. The collar leaf shall be  $1\frac{1}{2}$ " from roll line to bottom edge of collar at center back. The collar stand shall measure  $1\frac{5}{16}$ " at center back and be topstitched  $\frac{1}{16}$ " from top and bottom edges. For proper appearance with clip on tie, the stand shall be fastened with one button so that there shall be a tie space of  $\frac{1}{4}$ " when the collar is buttoned. The collar's interlining shall be a permanent press finish of 250 weight or equal.
- I-C,D,E Convertible Collar:** The garment shall have a one piece convertible collar. The points on the collar shall measure  $3\frac{1}{4}$ " in length,  $3\frac{1}{4}$ " at center back, and be topstitched  $\frac{1}{4}$ " from the edge. The collar's interlining shall be a permanent press finish of 250 weight or equal.
- II-C,D,E Convertible Collar:** The garment shall have a one-piece convertible collar. The points on the collar shall measure  $2\frac{7}{8}$ " in length,  $2\frac{7}{8}$ " at center back, and be topstitched  $\frac{1}{4}$ " from the edge. The collar's interlining shall be a permanent press finish of 250 weight or equal.
- I-A,C,D Shoulder Straps:** Shoulder straps shall be 2" at sleeve head and tapered to  $1\frac{3}{4}$ "- $1\frac{1}{2}$ ". The straps shall be stitched to the shoulder by a single needle machine forming an "X" beginning at the sleeve head and extending for approximately one-half the length of the strap. Length of straps shall be graduated conforming to size of shirt and set not more than  $\frac{1}{2}$ " from folded collar. Buttons attached to yokes shall match shoulder strap buttonholes at pointed ends.
- I-B, E Shoulder Straps:** Shoulder straps shall be 2" at sleeve head and tapered to  $1\frac{3}{4}$ "- $1\frac{1}{2}$ ". The straps shall be stitched to the shoulder by a single needle machine forming an "X" beginning at the sleeve head and extending for approximately one-half the length of the strap. Length of straps shall be graduated conforming to size of shirt and set not more than  $\frac{1}{2}$ " from folded collar. Buttons attached to yokes shall match shoulder strap buttonholes at pointed ends. **The shoulder straps shall be sewn down around the edges.**
- II-A,C,D Shoulder Straps:** Shoulder straps shall be  $1\frac{5}{8}$ " at sleeve head and tapered to  $1\frac{3}{8}$ "- $1\frac{1}{4}$ ". The straps shall be stitched to the shoulder by a single needle machine forming an "X" beginning at the sleeve head and extending for approximately one-half the length of the strap. Length of straps shall be graduated conforming to size of shirt and set not more than  $\frac{1}{2}$ " from folded collar. Buttons attached to yokes shall match shoulder strap buttonholes at pointed ends.
- II-B, E Shoulder Straps:** Shoulder straps shall be  $1\frac{5}{8}$ " at sleeve head and tapered to  $1\frac{3}{8}$ "- $1\frac{1}{4}$ ". The straps shall be stitched to the shoulder by a single needle machine forming an "X" beginning at the sleeve head and extending for approximately one-half the length of the strap. Length of straps shall be graduated conforming to size of shirt and set not more than  $\frac{1}{2}$ " from folded collar. Buttons attached to yokes shall match shoulder strap buttonholes at pointed ends. **The shoulder straps shall be sewn down around the edges.**

## ATTACHMENT D

- I-A,B Front for Two-Piece Shirt Collar:** Each front shall have a facing 2 ½" in width extending from the neckline to the bottom of the shirt, and provided by a turn under of material. The left front shall contain 6 vertical buttonholes placed ¾" from the edge of the plait and be 3 ½" apart. There shall be one button on the collar stand placed ¾" from edge. The button stand shall be 7/8" wide and be placed on the left side of the shirt. The buttons shall be securely attached to the button stand corresponding to the buttonholes on the facing.
- I-B \*\*Add 2" to shirt length.**
- II-A, B Front for Two-Piece Shirt Collar:** Each front shall have a facing 2 ½" in width extending from the neckline to the bottom of the shirt, and provided by a turn under of material. The right front shall contain 6 vertical buttonholes placed ¾" from the edge of the plait and be 3 ½" apart. There shall be one button on the collar stand placed ¾" from edge. The button stand shall be 7/8" wide and be placed on the right side of the shirt. The buttons shall be securely attached to the button stand corresponding to the buttonholes on the facing.
- I-B \*\*Add 2" to shirt length.**
- II-C,D,E Front for Convertible Collar:** Each front shall have a 3" facing provided by a turn under of material. The facings shall extend from the neckline to the bottom of the shirt. The left front shall contain 7 vertical cut buttonholes placed ¾" from the edge. The center of the first buttonhole shall be 5/8" from the top edge at center front. The second buttonhole shall be positioned 2 ½" from the top button with remaining buttonholes spaced 3 ¾" apart. The buttons shall be securely attached to the button stand corresponding to the buttonholes on the facing.
- I-D, E \*\*Add 2" to shirt length.**
- II-C,D,E Front for Convertible Collar:** Each front shall have a ½" facing provided by a turn under of material. The facings shall extend from the neckline to the bottom of the shirt. The right front shall contain 6 vertical buttonholes placed ¾" from the edge. The center of the first buttonhole shall be ½" from the top edge center front. The second buttonhole shall be positioned 2 ½" from the top button with remaining buttonholes spaced 3 ½" apart. The buttons shall be securely attached to the button stand corresponding to the buttonholes on the facing.
- II-D, E \*\*Add 2" to shirt length.**
- \*-A,C,D Badge Reinforcement:** The shirt shall have a 1" wide inside sling type badge holder extending from the shoulder joining seam to pocket of the left front and constructed of the basic material. Two small, uncut buttonholes shall be 1 1/8" apart with the lower buttonhole approximately 1 ¼" above top of left pocket flap.
- \* Pocket Flaps:** There shall be two deep scalloped flaps, 5 7/8" wide, 2 ¼" at sides, and 2 ¾" at center. There shall be a 1 ½" pencil opening through the left flap and a vertical uncut buttonhole in the center of the flap with a button sewn on top of the buttonhole. The flaps shall be topstitched 1/8" from edge and attached to the shirt front with a double row, ¼" gauge stitching. The underside of the flap shall have hook and pile tape, approximately 1" long by 3/8" wide, positioned on outer points of both pocket flaps.
- \* Pockets:** Both pockets shall have 1 ½" centered pleats stitched to prevent spreading. Pockets shall be 5 ½" wide x 5 ¾" deep with bottom mitered corners. The left pocket shall have a pencil slot 1 ½" from center edge. Upper hem shall be ½" wide. Pockets shall be topstitched 1/16" gauge with ¾" triangle tacks at upper corners. Both pockets shall have an approximately 1" long by 3/8" wide piece of hook and pile tape positioned to correspond with the hook and pile tape on each outer scalloped flap point.



## ATTACHMENT D

- I-\***      **Yoke & Back:** The yoke shall be constructed of two pieces. The outside yoke shall be made of the same fabric as the outer shell of the garment and the inside yoke shall be made of the lining fabric. The yoke shall be 3 ½” at center back and 3 ¾” at armhole.
- II-\***      **Yoke & Back:** The yoke shall be constructed of two pieces. The outside yoke shall be made of the same fabric as the outer shell of the garment and the inside yoke shall be made of the lining fabric. The yoke shall be 3 ½” at center back and 3 ¾” at armhole.
- I-A, B**      **Long Sleeves:** Each sleeve shall have a 5” long sleeve placket with a 1” wide top placket and a ½” wide bottom placket. The sleeve placket is 5” long with top and bottom facings. A vertical buttonhole shall be sewn 2 ½” from top of cuff centered on top placket with matching button centered on bottom.
- Cuffs:** Cuffs shall be 2 ¾” in depth with rounded corners ¼” topstitching at bottom and double stitched 3/8” gauge topstitching where cuff joins sleeve. Two horizontal buttons with corresponding horizontal buttonhole shall be centered on each cuff 1 ¼” apart.
- II-A, B**      **Long Sleeves:** Each sleeve shall have a 5” long sleeve placket with a 1” wide top placket and a ½” wide bottom placket. The sleeve is 5” long with top and bottom facings. A vertical buttonhole shall be sewn 2 ½” from top of cuff centered on top placket with matching button centered on bottom.
- Cuffs:** Cuffs shall be 2 ½” in depth with rounded corners ¼” topstitching at bottom and double stitched 3/8” gauge topstitching where cuff joins sleeve. Two horizontal buttons with corresponding horizontal buttonhole shall be centered on each cuff 1” apart.
- \*-C,D,E**      **Short Sleeves:** The sleeve shall be approximately 9” long from the shoulder seam. There shall be a ¾” hem turned to the inside with the folded edge topstitched 1/16” from the upper folded edge. The bottom edge of the sleeve closing seam shall bartacked within 1/8” of the lower edge.
- \***              **Bottoms:** A ¼” rolled hem at the bottom of the garment is preferred.
- \*-A,C,D**      **Military Creases:** There shall be five 1/16” sharp military creases on the shirt. There shall be one crease on each front, centered vertically through pocket and flap. Spacing for military creases on shirt back shall be proportionate to the size of the shirt. For lightweight fabric (4 to 6 ounces) creases must be stitched in; for heavy fabrics (10 ounce) stitches shall be baked in.
- \***              **Patch:** The organizations shoulder patch shall be sewn securely in the center of the left sleeve with the top edge 1 ¼ to 1 ½” below the shoulder seam depending on the garment size. The patch shall be sewn with matching thread and attached so that the edges do not roll-up after washing.

## ATTACHMENT D

### Sizes and Measurements

<b>I-A, B</b>	<b>Sizes:</b>	<u>Neck</u>	<u>Sleeve</u>
		14	31-33
		14.5	31-34
		15	31-35
		15.5	31-36
		16	31-36
		16.5	31-36
		17	31-37
		17.5	31-37
		18	31-36
		18.5	33-37
		19	33-36
		20	33-36
		21	33-36
		22	33-36

**I-C,D,E**    **Sizes:**            S-4XL

<b>II-A,B</b>	<b>Sizes:</b>	<u>Bust Size</u>	<u>Sleeve</u> (R-Regular, L-Long—L=sleeve length + 1” )
		28	30    R
		30	30    R&L
		32	30    R&L
		34	30    R&L
		36	31    R&L
		38	31    R&L
		40	32    R&L
		42	33    R&L
		44	33    R&L
		46	33    R&L
		48	33    R&L
		50	33    R&L

**II-C,D,E**    **Sizes:**            28-50 in even sizes only.

\*        **Pressing and Finishing:** Component parts shall be pressed on hot head machines; finished shirt shall be pressed and folded using jet clips or non-corrosive fasteners.

## ATTACHMENT D

**C453 Shirt, Female, Grey 4.25 Oz. 65/35 P/C Poplin, SS, CC with Badge Tab**

**Specifications are identical for the following other components:**

**C421 Shirt, Male, Grey 10 Oz. 65/35 P/R Tropical, LS with Badge Tab**  
**N430 Shirt, Male, Grey 10 Oz. 65/35 P/R Tropical, LS with Badge Tab**  
**N432 Shirt, Male, Grey 4.25 Oz. 65/35 P/C Poplin, SS, CC with Badge Tab**  
**C422 Shirt, Male, Grey 10 Oz. 65/35 P/R Tropical, SS, CC with Badge Tab**  
**N428 Shirt, Male, Grey 10 Oz. 65/35 P/R Tropical, SS, CC with Badge Tab**  
**C427 Shirt, Male, Grey 4.25 Oz. 65/35 P/C Poplin, SS, CC with Badge Tab**  
**N600 Shirt, Male, Grey 5.5 Oz. 65/35 P/C Twill, LS without Badge Tab**  
**N431 Shirt, Male, Grey 5.5 Oz. 65/35 P/C Twill, SS, CC, without Badge Tab**  
**C447 Shirt, Female, Grey 10 Oz. 65/35 P/R Tropical, LS with Badge Tab**  
**N456 Shirt, Female, Grey 10 Oz. 65/35 P/R Tropical, LS with Badge Tab**  
**C448 Shirt, Female, Grey 10 Oz. 65/35 P/R Tropical, SS, CC with Badge Tab**  
**N454 Shirt, Female, Grey 10 Oz. 65/35 P/R Tropical, SS, CC with Badge Tab**  
**N458 Shirt, Female, Grey 4.25 Oz. 65/35 P/C Poplin, SS, CC with Badge Tab**  
**N457 Shirt, Female, Grey 5.5 Oz. 65/35 P/C Twill, LS without Badge Tab**  
**N601 Shirt, Female, Grey 5.5 Oz. 65/35 P/C Twill, SS, CC, without Badge Tab**

**Sample Size:** Male-16x33, Female-36

### GENERAL DESCRIPTION

The shirt is form fitting with two pleated breast pockets with scalloped flaps and shoulder straps. The shirt has military creases, a pencil slot, and a shoulder emblem. Variations of this garment shall include male and female:

Long-vs-short sleeves (LS, SS)

Two-piece shirt collar-vs-convertible collar (2PC, CC)

Tropical weave-vs-poplin-vs-twill (Trop, Pop, Twill)

**TYPE ITEMS: \* - All Items      Type I - Male Items      Type II - Female Items**

<b>CLASSIFICATION</b>		<b>COE # (M/F)</b>	<b>NPS # (M/F)</b>
*	All Items	*	*
A	LS, 2 piece collar w BT, Trop	C421/C447	N430/N456
B	LS, 2 piece collar wo BT, Twill**	--	N600/N457
C	SS, CC, w BT, Trop	C422/C448	N428/N454
D	SS, CC, w BT, Pop**	C427/C453	N432/N458
E	SS, CC, wo BT, Twill**	--	N431/N601

\*\* see special note under **FRONT**

## ATTACHMENT D

### SALIENT CHARACTERISTICS

#### Components

##### Type-Class

- \*-A, C **Basic Material:** The material shall be shade #51, Nickel Grey or equal 10 Oz. 65/35 polyester/rayon tropical weave matching standard sample.
- \*-D **Basic Material:** The material shall be Nickel grey 4 Oz. 65/35 polyester/cotton poplin weave matching the standard sample.
- \*-B, E **Basic Material:** The material shall be Grey 5.5 Oz. 65/35 polyester/combed cotton twill weave matching Milliken 2640-5598.
- \* **Linings:** Shall have collar and yoke linings that are compatible with the construction of the shirts.
- \* **Thread:** Sewing thread for all operations shall be cotton covered polyester, dyed to match shade of self material, and conforming to ticket numbers 50-2 ply or 50-3 ply.
- \* **Buttons:** Buttons shall be first grade 19 ligne pearlescent plastic buttons and shall match the color of basic material.
- \* **Collar Stays:** The collar stay shall be made of good quality vinyl, attached to the inside of the bottom collar leaf, and come out to the stitching line.
- \* **Labels:** See general reference and requirements sheet.

#### General Instructions

- \* **Cutting:** Collars, bands, pockets, and flaps shall be cut to ensure uniformity.
- \* **Stitching:** A lockstitch (301) shall be used throughout, except inserting the sleeve and side closing operations, which shall be safety stitched (516). All topstitching shall be ¼" from edge. There shall be 10 to 14 stitches per inch required.
- I-A,B **Button Holes For Two-Piece Shirt Collar:** The shirt shall have 7 cut buttonholes down the front. For proper appearance with clip-on tie, the stand shall be fastened with one button so there shall be a tie space of ¼" when collar is buttoned. There shall be 1 cut buttonhole on each shoulder strap and 1 uncut buttonhole on each pocket flap.
- I-C,D,E **Button Holes For Convertible Collar:** The shirt shall have 7 cut buttonholes down the front left facing. The center of the first buttonhole shall be 5/8" from top edge at center front. The center of the second buttonhole on the left facing shall be 2 ½" from the bottom of the top buttonhole. The remaining buttonholes shall be spaced 3 ¾" apart. There shall be 1 cut buttonhole on each shoulder strap, 1 uncut buttonhole on each pocket flap, and 2 cut buttonholes on each cuff. A vertical cut buttonhole shall be sewn on the sleeve placket opening 2 ½" from the top of the cuff, centered on the top placket with a matching button centered on bottom placket.
- II-A, B **Button Holes For Two-Piece Shirt Collar:** The shirt shall have 6 cut buttonholes down the front. The center of the first buttonhole shall be placed on the collar band 1" from edge. The center of the second buttonhole which is on the center plait shall be 3 ¼" from the bottom of the collar. For proper appearance with clip-on tie, the stand shall be fastened with one button so there shall be a tie space of ¼" when collar is buttoned. The remaining buttonholes shall be spaced 3 ½" apart. There shall be 1 cut buttonhole on each shoulder strap and 1 uncut buttonhole on each pocket flap.

## ATTACHMENT D

- II-C,D,E Button Holes For Convertible Collar:** The shirt shall have 6 cut buttonholes down the front right facing. The center of the first buttonhole shall be  $\frac{1}{2}$ " from top edge at center front. The center of the second buttonhole on the right facing shall be  $2\frac{1}{2}$ " from the bottom of the top buttonhole. The remaining buttonholes shall be spaced  $3\frac{1}{2}$ " apart. There shall be 1 cut buttonhole on each shoulder strap and 1 uncut buttonhole on each pocket flap.

### Detail Design Characteristics

- I-A, B Two-Piece Shirt Collar:** The garment shall have a two piece shirt collar. The points on the collar leaf shall measure  $3\frac{1}{4}$ " in length and be topstitched  $\frac{1}{4}$ " from the edge. The collar leaf shall be  $1\frac{3}{4}$ " from roll line to bottom edge of collar at center back. The collar stand shall measure  $1\frac{5}{16}$ " at center back and be topstitched  $\frac{1}{16}$ " from top and bottom edges. For proper appearance with clip on tie, the stand shall be fastened with one button so that there shall be a tie space of  $\frac{1}{4}$ " when the collar is buttoned. The collar's interlining shall be a permanent press finish of 250 weight or equal.
- II-A, B Two-Piece Shirt Collar:** The garment shall have a two piece shirt collar. The points on the collar leaf shall measure  $2\frac{7}{8}$ " in length and be topstitched  $\frac{1}{4}$ " from the edge. The collar leaf shall be  $1\frac{1}{2}$ " from roll line to bottom edge of collar at center back. The collar stand shall measure  $1\frac{5}{16}$ " at center back and be topstitched  $\frac{1}{16}$ " from top and bottom edges. For proper appearance with clip on tie, the stand shall be fastened with one button so that there shall be a tie space of  $\frac{1}{4}$ " when the collar is buttoned. The collar's interlining shall be a permanent press finish of 250 weight or equal.
- I-C,D,E Convertible Collar:** The garment shall have a one piece convertible collar. The points on the collar shall measure  $3\frac{1}{4}$ " in length,  $3\frac{1}{4}$ " at center back, and be topstitched  $\frac{1}{4}$ " from the edge. The collar's interlining shall be a permanent press finish of 250 weight or equal.
- II-C,D,E Convertible Collar:** The garment shall have a one-piece convertible collar. The points on the collar shall measure  $2\frac{7}{8}$ " in length,  $2\frac{7}{8}$ " at center back, and be topstitched  $\frac{1}{4}$ " from the edge. The collar's interlining shall be a permanent press finish of 250 weight or equal.
- I-A,C,D Shoulder Straps:** Shoulder straps shall be 2" at sleeve head and tapered to  $1\frac{3}{4}$ "- $1\frac{1}{2}$ ". The straps shall be stitched to the shoulder by a single needle machine forming an "X" beginning at the sleeve head and extending for approximately one-half the length of the strap. Length of straps shall be graduated conforming to size of shirt and set not more than  $\frac{1}{2}$ " from folded collar. Buttons attached to yokes shall match shoulder strap buttonholes at pointed ends.
- I-B, E Shoulder Straps:** Shoulder straps shall be 2" at sleeve head and tapered to  $1\frac{3}{4}$ "- $1\frac{1}{2}$ ". The straps shall be stitched to the shoulder by a single needle machine forming an "X" beginning at the sleeve head and extending for approximately one-half the length of the strap. Length of straps shall be graduated conforming to size of shirt and set not more than  $\frac{1}{2}$ " from folded collar. Buttons attached to yokes shall match shoulder strap buttonholes at pointed ends. **The shoulder straps shall be sewn down around the edges.**
- II-A,C,D Shoulder Straps:** Shoulder straps shall be  $1\frac{5}{8}$ " at sleeve head and tapered to  $1\frac{3}{8}$ "- $1\frac{1}{4}$ ". The straps shall be stitched to the shoulder by a single needle machine forming an "X" beginning at the sleeve head and extending for approximately one-half the length of the strap. Length of straps shall be graduated conforming to size of shirt and set not more than  $\frac{1}{2}$ " from folded collar. Buttons attached to yokes shall match shoulder strap buttonholes at pointed ends.
- II-B, E Shoulder Straps:** Shoulder straps shall be  $1\frac{5}{8}$ " at sleeve head and tapered to  $1\frac{3}{8}$ "- $1\frac{1}{4}$ ". The straps shall be stitched to the shoulder by a single needle machine forming an "X" beginning at the sleeve head and extending for approximately one-half the length of the strap. Length of straps shall be graduated conforming to size of shirt and set not more than  $\frac{1}{2}$ " from folded collar. Buttons attached to yokes shall match shoulder strap buttonholes at pointed ends. **The shoulder straps shall be sewn down around the edges.**

## ATTACHMENT D

- I-A,B Front for Two-Piece Shirt Collar:** Each front shall have a facing 2 ½" in width extending from the neckline to the bottom of the shirt, and provided by a turn under of material. The left front shall contain 6 vertical buttonholes placed ¾" from the edge of the plait and be 3 ½" apart. There shall be one button on the collar stand placed ¾" from edge. The button stand shall be 7/8" wide and be placed on the left side of the shirt. The buttons shall be securely attached to the button stand corresponding to the buttonholes on the facing.
- I-B \*\*Add 2" to shirt length.**
- II-A, B Front for Two-Piece Shirt Collar:** Each front shall have a facing 2 ½" in width extending from the neckline to the bottom of the shirt, and provided by a turn under of material. The right front shall contain 6 vertical buttonholes placed ¾" from the edge of the plait and be 3 ½" apart. There shall be one button on the collar stand placed ¾" from edge. The button stand shall be 7/8" wide and be placed on the right side of the shirt. The buttons shall be securely attached to the button stand corresponding to the buttonholes on the facing.
- I-B \*\*Add 2" to shirt length.**
- II-C,D,E Front for Convertible Collar:** Each front shall have a 3" facing provided by a turn under of material. The facings shall extend from the neckline to the bottom of the shirt. The left front shall contain 7 vertical cut buttonholes placed ¾" from the edge. The center of the first buttonhole shall be 5/8" from the top edge at center front. The second buttonhole shall be positioned 2 ½" from the top button with remaining buttonholes spaced 3 ¾" apart. The buttons shall be securely attached to the button stand corresponding to the buttonholes on the facing.
- I-D, E \*\*Add 2" to shirt length.**
- II-C,D,E Front for Convertible Collar:** Each front shall have a ½" facing provided by a turn under of material. The facings shall extend from the neckline to the bottom of the shirt. The right front shall contain 6 vertical buttonholes placed ¾" from the edge. The center of the first buttonhole shall be ½" from the top edge center front. The second buttonhole shall be positioned 2 ½" from the top button with remaining buttonholes spaced 3 ½" apart. The buttons shall be securely attached to the button stand corresponding to the buttonholes on the facing.
- II-D, E \*\*Add 2" to shirt length.**
- \*-A,C,D Badge Reinforcement:** The shirt shall have a 1" wide inside sling type badge holder extending from the shoulder joining seam to pocket of the left front and constructed of the basic material. Two small, uncut buttonholes shall be 1 1/8" apart with the lower buttonhole approximately 1 ¼" above top of left pocket flap.
- \* Pocket Flaps:** There shall be two deep scalloped flaps, 5 7/8" wide, 2 ¼" at sides, and 2 ¾" at center. There shall be a 1 ½" pencil opening through the left flap and a vertical uncut buttonhole in the center of the flap with a button sewn on top of the buttonhole. The flaps shall be topstitched 1/8" from edge and attached to the shirt front with a double row, ¼" gauge stitching. The underside of the flap shall have hook and pile tape, approximately 1" long by 3/8" wide, positioned on outer points of both pocket flaps.
- \* Pockets:** Both pockets shall have 1 ½" centered pleats stitched to prevent spreading. Pockets shall be 5 ½" wide x 5 ¾" deep with bottom mitered corners. The left pocket shall have a pencil slot 1 ½" from center edge. Upper hem shall be ½" wide. Pockets shall be topstitched 1/16" gauge with ¾" triangle tacks at upper corners. Both pockets shall have an approximately 1" long by 3/8" wide piece of hook and pile tape positioned to correspond with the hook and pile tape on each outer scalloped flap point.

## ATTACHMENT D

- I-\***      **Yoke & Back:** The yoke shall be constructed of two pieces. The outside yoke shall be made of the same fabric as the outer shell of the garment and the inside yoke shall be made of the lining fabric. The yoke shall be 3 ½” at center back and 3 ¾” at armhole.
- II-\***      **Yoke & Back:** The yoke shall be constructed of two pieces. The outside yoke shall be made of the same fabric as the outer shell of the garment and the inside yoke shall be made of the lining fabric. The yoke shall be 3 ½” at center back and 3 ¾” at armhole.
- I-A, B**      **Long Sleeves:** Each sleeve shall have a 5” long sleeve placket with a 1” wide top placket and a ½” wide bottom placket. The sleeve placket is 5” long with top and bottom facings. A vertical buttonhole shall be sewn 2 ½” from top of cuff centered on top placket with matching button centered on bottom.
- Cuffs:** Cuffs shall be 2 ¾” in depth with rounded corners ¼” topstitching at bottom and double stitched 3/8” gauge topstitching where cuff joins sleeve. Two horizontal buttons with corresponding horizontal buttonhole shall be centered on each cuff 1 ¼” apart.
- II-A, B**      **Long Sleeves:** Each sleeve shall have a 5” long sleeve placket with a 1” wide top placket and a ½” wide bottom placket. The sleeve is 5” long with top and bottom facings. A vertical buttonhole shall be sewn 2 ½” from top of cuff centered on top placket with matching button centered on bottom.
- Cuffs:** Cuffs shall be 2 ½” in depth with rounded corners ¼” topstitching at bottom and double stitched 3/8” gauge topstitching where cuff joins sleeve. Two horizontal buttons with corresponding horizontal buttonhole shall be centered on each cuff 1” apart.
- \*-C,D,E**      **Short Sleeves:** The sleeve shall be approximately 9” long from the shoulder seam. There shall be a ¾” hem turned to the inside with the folded edge topstitched 1/16” from the upper folded edge. The bottom edge of the sleeve closing seam shall bartacked within 1/8” of the lower edge.
- \***              **Bottoms:** A ¼” rolled hem at the bottom of the garment is preferred.
- \*-A,C,D**      **Military Creases:** There shall be five 1/16” sharp military creases on the shirt. There shall be one crease on each front, centered vertically through pocket and flap. Spacing for military creases on shirt back shall be proportionate to the size of the shirt. For lightweight fabric (4 to 6 ounces) creases must be stitched in; for heavy fabrics (10 ounce) stitches shall be baked in.
- \***              **Patch:** The organizations shoulder patch shall be sewn securely in the center of the left sleeve with the top edge 1 ¼ to 1 ½” below the shoulder seam depending on the garment size. The patch shall be sewn with matching thread and attached so that the edges do not roll-up after washing.

### Sizes and Measurements

I-A, B	Sizes:	Neck	Sleeve
		14	31-33
		14.5	31-34
		15	31-35
		15.5	31-36
		16	31-36
		16.5	31-36
		17	31-37
		17.5	31-37
		18	31-36
		18.5	33-37
		19	33-36
		20	33-36
		21	33-36
		22	33-36

## ATTACHMENT D

**I-C,D,E    Sizes:**                    S-4XL

<b>II-A,B    Sizes:</b>	<u>Bust Size</u>	<u>Sleeve</u> (R-Regular, L-Long—L=sleeve length + 1" )
	28	30    R
	30	30    R&L
	32	30    R&L
	34	30    R&L
	36	31    R&L
	38	31    R&L
	40	32    R&L
	42	33    R&L
	44	33    R&L
	46	33    R&L
	48	33    R&L
	50	33    R&L

**II-C,D,E    Sizes:**                    28-50 in even sizes only.

\*            **Pressing and Finishing:** Component parts shall be pressed on hot head machines; finished shirt shall be pressed and folded using jet clips or non-corrosive fasteners.



## ATTACHMENT D

### C480 Shorts, Male, Green 62/34 P/C Stretch

Specifications are identical for the following other components:

### C482 Shorts, Female, Green 62/34 P/C Stretch

**Sample Size:** All dimensions are based on Male size 34 and Female size 12.

#### GENERAL DESCRIPTION

Sportive six pocket hiking short or equal.

**TYPE** \* All Shorts Type I—Male Type II—Female

**CLASSIFICATION** COE # (M/F)

\* **All Shorts** \*  
C480  
C482

#### SALIENT CHARACTERISTICS

##### Components

Type-Class

- \* **Basic Material:** The material shall be 62% polyester/34% combed cotton/4% stretch fabric, Forest Green.
- \* **Labels:** See general references and requirements sheet.

##### Detail Design Characteristics

- \* **Waistband:** A 1 ½" waistband shall close with a 22-ligne button. The waistband lining shall finish 1 7/8" wide. Five belt loops shall be sewn into the top and dropped and tacked below waistband with the top of the belt loop sewn into the top of the waistband and with two 3/8" bartacks. Belt loops shall be 1-7/8" wide at center front panel and on seat seam. 1" loops on sides. Front belt loops shall be located 3" from the left front and 3 ¾" from the right front. Belt loops shall be 2 ½" long and shall have a minimum 2" pass-through between stitchings.
- II-\* **Waistband:** A 1 ½" waistband shall close with a 22-ligne button. The waistband lining shall finish 1 ¾" wide. Five belt loops shall be sewn into the top of waistband and dropped and tacked below waistband with the top of the belt loop sewn into the top of the waistband and with two 3/8" bartacks. Front and back belt loops shall be 1 ¾" wide, side belt loops shall be 1" wide. Front belt loops shall be located 3" from the left front and 3 ¾" from the right front. Belt loops shall be 2 3/8" long and shall have a minimum 1 7/8" pass-through between stitchings.
- \* **Fly:** The front fly shall close with a coil zipper or equal. The bottom of the left fly curve shall be sewn with 3/8" bartack. Zipper tapes shall be sewn to flies with a minimum of two rows of stitches. Left fly shall extend a maximum of ½" past zipper coil.
- I-\* **Front and Back:** The front length shall be 17 ¼" from the top of the waistband to the bottom of the hem. The side seams shall be 14 ¾" long from the bottom of the waistband to the bartack above the side vents. Center back length shall be 19" from the top of the waistband to the bottom of the hem. One half-leg width shall be 12 ½" at top of bottom hem.

## ATTACHMENT D

- II-\*** **Front and Back:** The front length shall be 18 ½” from the top of the waistband to the bottom of the hem. The side seams shall be 16” long from the bottom of the waistband to the bartack above the side vents. Center back length shall be 19 ¼” from the top of the waistband to the bottom of the hem. One half-leg width shall be 13” at top of bottom hem.
- I-\*** **Front Pockets:** Two large 1/2 top style patch pockets start at waistband and the center edge shall run down 12”. The outer edge of the patch pocket shall run from under the front waistband to the side seam. The pocket opening shall be a minimum 6 ¼” wide with ¼” gauge topstitching. A second patch pocket with flap shall be placed on top of the 1/2 top patch pockets. Front edges don’t match – second pocket set 1 ¼” back from front edge of 1/2 top pocket. The pocket shall be 5 ¾” deep and shall be 5 ½” wide with ¼” gauge topstitching. The top hem shall be 7/8” wide with a 22-ligne button centered over hem. The flap shall be 5 5/8” wide and 2” deep. Buttonhole locations shall match button. The ends of all pocket openings and flaps shall be bartacked.
- II-\*** **Front Pockets:** Two large 1/2 top style patch pockets start under the waistband and the center edge shall run down 12”. The outer edge of the patch pocket shall run from under the waistband to the side seam. The pocket opening shall be a minimum 5 ¾” wide with ¼” gauge topstitching. A second patch pocket with flap shall be placed on top of the 1/2 top patch pockets. Front edges don’t match – second pocket set 1 ¼” back from front edge of 1/2 top pocket. 2<sup>nd</sup> pocket set 1 3/8” back from front edge at 1/2 top pocket. The pocket shall be 5-1/4” wide with 1/4” gauge topstitching and 5 ½” deep. The top hem shall be 7/8” wide with a 22-ligne button centered over hem. The flap shall be 5 ¼” wide and 2” deep. Buttonhole locations shall match button. The ends of all pocket openings and flaps shall be bartacked.
- I-\*** **Back Yoke:** The back yoke shall be 2” at the sideseams and 2 ¾” at the center back.
- II-\*** **Back Yoke:** The back yoke shall be 2” at the sideseams and 3 ¼” at the center back.
- I-\*** **Back Pockets:** Two back patch pocket shall be 5 ¾” wide by 5 7/8” deep with 1/4” gauge topstitching. The top hem shall be 7/8” wide. A 22-ligne button shall be located 3/8” under top edge of hem and centered. The top of the pocket flaps shall be caught in the back yoke seam. The flaps shall be 5 7/8” wide by 2” with ¼” gauge topstitching. The ends of pocket openings and flaps shall be bartacked.
- II-\*** **Back Pockets:** Two back patch pocket shall be 5 ¼” wide by 5 5/8” deep with ¼” gauge topstitching. The top hem shall be 7/8” wide. A 22-ligne button shall be located ½” under top edge of hem and centered. The top of the pocket flaps shall be caught in the back yoke seam. The flaps shall be 5 ½” wide by 2” with ¼” gauge topstitching. The ends of pocket openings and flaps shall be bartacked.
- \*** **Bottom Hem:** The bottom hem shall be turned up to the inside with the raw edge serged and topstitched 1/8” from the edge. The hem shall finish 1 5/8” wide. There shall be 1” side vents that shall be bartacked at the top.
- \*** **Seaming:** The seat seam shall be safety stitched, seam allowance folded to one side, then stitched down with ¼” gauge stitching. Side seams shall be safety stitched. All exposed edges shall be serged.

### Sizes and Measurements

- I-\*** Sizes: Even sizes 28-46
- II-\*** Sizes: Even sizes 4-20

## ATTACHMENT D

### C482 Shorts, Female, Green 62/34 P/C Stretch

Specifications are identical for the following other components:

### C480 Shorts, Male, Green 62/34 P/C Stretch

**Sample Size:** All dimensions are based on Male size 34 and Female size 12.

#### GENERAL DESCRIPTION

Sportive six pocket hiking short or equal.

**TYPE** \* All Shorts Type I—Male Type II—Female

**CLASSIFICATION** COE # (M/F)

\* **All Shorts** \*  
C480  
C482

#### SALIENT CHARACTERISTICS

##### Components

Type-Class

- \* **Basic Material:** The material shall be 62% polyester/34% combed cotton/4% stretch fabric, Forest Green.
- \* **Labels:** See general references and requirements sheet.

##### Detail Design Characteristics

- \* **Waistband:** A 1 1/2" waistband shall close with a 22-ligne button. The waistband lining shall finish 1 7/8" wide. Five belt loops shall be sewn into the top and dropped and tacked below waistband with the top of the belt loop sewn into the top of the waistband and with two 3/8" bartacks. Belt loops shall be 1-7/8" wide at center front panel and on seat seam. 1" loops on sides. Front belt loops shall be located 3" from the left front and 3 3/4" from the right front. Belt loops shall be 2 1/2" long and shall have a minimum 2" pass-through between stitchings.
- II-\* **Waistband:** A 1 1/2" waistband shall close with a 22-ligne button. The waistband lining shall finish 1 3/4" wide. Five belt loops shall be sewn into the top of waistband and dropped and tacked below waistband with the top of the belt loop sewn into the top of the waistband and with two 3/8" bartacks. Front and back belt loops shall be 1 3/4" wide, side belt loops shall be 1" wide. Front belt loops shall be located 3" from the left front and 3 3/4" from the right front. Belt loops shall be 2 3/8" long and shall have a minimum 1 7/8" pass-through between stitchings.
- \* **Fly:** The front fly shall close with a coil zipper or equal. The bottom of the left fly curve shall be sewn with 3/8" bartack. Zipper tapes shall be sewn to flies with a minimum of two rows of stitches. Left fly shall extend a maximum of 1/2" past zipper coil.
- I-\* **Front and Back:** The front length shall be 17 1/4" from the top of the waistband to the bottom of the hem. The side seams shall be 14 3/4" long from the bottom of the waistband to the bartack above the side vents. Center back length shall be 19" from the top of the waistband to the bottom of the hem. One half-leg width shall be 12 1/2" at top of bottom hem.

## ATTACHMENT D

- II-\*** **Front and Back:** The front length shall be 18 ½” from the top of the waistband to the bottom of the hem. The side seams shall be 16” long from the bottom of the waistband to the bartack above the side vents. Center back length shall be 19 ¼” from the top of the waistband to the bottom of the hem. One half-leg width shall be 13” at top of bottom hem.
- I-\*** **Front Pockets:** Two large 1/2 top style patch pockets start at waistband and the center edge shall run down 12”. The outer edge of the patch pocket shall run from under the front waistband to the side seam. The pocket opening shall be a minimum 6 ¼” wide with ¼” gauge topstitching. A second patch pocket with flap shall be placed on top of the 1/2 top patch pockets. Front edges don’t match – second pocket set 1 ¼” back from front edge of 1/2 top pocket. The pocket shall be 5 ¾” deep and shall be 5 ½” wide with ¼” gauge topstitching. The top hem shall be 7/8” wide with a 22-ligne button centered over hem. The flap shall be 5 5/8” wide and 2” deep. Buttonhole locations shall match button. The ends of all pocket openings and flaps shall be bartacked.
- II-\*** **Front Pockets:** Two large 1/2 top style patch pockets start under the waistband and the center edge shall run down 12”. The outer edge of the patch pocket shall run from under the waistband to the side seam. The pocket opening shall be a minimum 5 ¾” wide with ¼” gauge topstitching. A second patch pocket with flap shall be placed on top of the 1/2 top patch pockets. Front edges don’t match – second pocket set 1 ¼” back from front edge of 1/2 top pocket. 2<sup>nd</sup> pocket set 1 3/8” back from front edge at 1/2 top pocket. The pocket shall be 5-1/4” wide with 1/4” gauge topstitching and 5 ½” deep. The top hem shall be 7/8” wide with a 22-ligne button centered over hem. The flap shall be 5 ¼” wide and 2” deep. Buttonhole locations shall match button. The ends of all pocket openings and flaps shall be bartacked.
- I-\*** **Back Yoke:** The back yoke shall be 2” at the sideseams and 2 ¾” at the center back.
- II-\*** **Back Yoke:** The back yoke shall be 2” at the sideseams and 3 ¼” at the center back.
- I-\*** **Back Pockets:** Two back patch pocket shall be 5 ¾” wide by 5 7/8” deep with 1/4” gauge topstitching. The top hem shall be 7/8” wide. A 22-ligne button shall be located 3/8” under top edge of hem and centered. The top of the pocket flaps shall be caught in the back yoke seam. The flaps shall be 5 7/8” wide by 2” with ¼” gauge topstitching. The ends of pocket openings and flaps shall be bartacked.
- II-\*** **Back Pockets:** Two back patch pocket shall be 5 ¼” wide by 5 5/8” deep with ¼” gauge topstitching. The top hem shall be 7/8” wide. A 22-ligne button shall be located ½” under top edge of hem and centered. The top of the pocket flaps shall be caught in the back yoke seam. The flaps shall be 5 ½” wide by 2” with ¼” gauge topstitching. The ends of pocket openings and flaps shall be bartacked.
- \*** **Bottom Hem:** The bottom hem shall be turned up to the inside with the raw edge serged and topstitched 1/8” from the edge. The hem shall finish 1 5/8” wide. There shall be 1” side vents that shall be bartacked at the top.
- \*** **Seaming:** The seat seam shall be safety stitched, seam allowance folded to one side, then stitched down with ¼” gauge stitching. Side seams shall be safety stitched. All exposed edges shall be serged.

### Sizes and Measurements

- I-\*** **Sizes:** Even sizes 28-46
- II-\*** **Sizes:** Even sizes 4-20

## ATTACHMENT D

**C484 Skirt, Female, Green 11 Oz. 55/45 P/W Tropical**

**Specifications are identical for the following other components:**

**N483 Skirt, Female, Green 11 Oz. 55/45 P/W Tropical**

**N485 Skirt, Female, Green 16 Oz. 55/45 P/W Elastique**

**C486 Skirt, Female, Green 16 Oz. 55/45 P/W Elastique**

**F492 Skirt, Female, Brown 8 Oz. 65/35 P/C Chetopa Twill**

**Sample Size:** All dimensions are based on female's size 12

### GENERAL DESCRIPTION

The skirt shall have two quarter top front pockets, back zipper closure, pleated front, and rear kick pleat. The wool skirt shall be fully lined.

**TYPE** \*- All Skirts

CLASSIFICATION	NPS #	COE#	FWS
* All Skirts	*	*	*
A Winter Elastique	N485	C486	--
B Summer Tropical	N483	C484	--
C Chetopa Twill	--	--	F492

### SALIENT CHARACTERISTICS

#### Components

**\*-A Basic Material:** The material shall be Raeford Style 646 16 oz., Elastique, 55% polyester/45% wool, Forest Green.

**\*-B Basic Material:** The material shall be Raeford 11 oz. Tropical, 55% polyester/45% wool, Forest Green.

**\*-C Basic Material:** The material shall be Post cured 8oz./sq.yd. 65% polyester/ 35% cotton, Graniteville Chetopa IV, Brown 67010-11 Soft Touch fabric.

**\*-A,B Linings:** The skirt shall be fully lined with hi-count satin. It shall have rear darts and front pleats like the shell fabric. The back of the lining shall have a hemmed opening to allow for movement. The lining shall be serged.

**\*-C Linings:** None

**\*-\* Zipper:** Nylon coil zipper 9" long.

#### Detail Design Characteristics

**\*-\* Darts:** There shall be one dart, 3-1/2 inches in length on each side of the front and on each side of each back panel.

**\*-\* Pleats:** There shall be an open kick pleat in the center back seam, 16" below the waistband. The kick pleat shall be 2-1/4" deep, open toward the right side seam and be secured at the top with a diagonal topstitch.

## ATTACHMENT D

- \*-\* **Waistband:** The waistband shall be 1 ¼" wide and shall have a reinforced closure: a clear 22-ligne button on the inside of the waistband and a matching 22-ligne button on the outside. The skirt shall be made with a continuous closed waistband. There shall be 2 elastic inserts behind each sideseam, which allows the waistband to stretch 2 ½". The waistband shall be set on the outside and closed by topstitching 1/16" from the lower edge of the band. The inner waistband edge shall be bound with ¼" black twill.
- \*-\* **Pockets:** The side pockets shall have a 6.5 inch opening, be 5-1/2 inch deep from bottom of pocket opening, be made from 260 wt. pocketing material and have self goods pocket facings. The pockets shall be sewn and stitched, turned and restitched. The pocket opening shall have straight bartacks at each end. The front edge of the pocket opening shall be topstitched 1/16".

### Sizes and Measurements

#### Finished Dimensions

- \*-\* **Sizes:** Petite: 4-14 even increments  
Regular: 2-30 even increments  
Tall: 8-24 even increments

## ATTACHMENT D

**C486 Skirt, Female, Green 16 Oz. 55/45 P/W Elastique**

**Specifications are identical for the following other components:**

**N483 Skirt, Female, Green 11 Oz. 55/45 P/W Tropical**

**C484 Skirt, Female, Green 11 Oz. 55/45 P/W Tropical**

**N485 Skirt, Female, Green 16 Oz. 55/45 P/W Elastique**

**F492 Skirt, Female, Brown 8 Oz. 65/35 P/C Chetopa Twill**

**Sample Size:** All dimensions are based on female's size 12

### GENERAL DESCRIPTION

The skirt shall have two quarter top front pockets, back zipper closure, pleated front, and rear kick pleat. The wool skirt shall be fully lined.

**TYPE** \*- All Skirts

CLASSIFICATION	NPS #	COE#	FWS
* All Skirts	*	*	*
A Winter Elastique	N485	C486	--
B Summer Tropical	N483	C484	--
C Chetopa Twill	--	--	F492

### SALIENT CHARACTERISTICS

#### Components

**\*-A Basic Material:** The material shall be Raeford Style 646 16 oz., Elastique, 55% polyester/45% wool, Forest Green.

**\*-B Basic Material:** The material shall be Raeford 11 oz. Tropical, 55% polyester/45% wool, Forest Green.

**\*-C Basic Material:** The material shall be Post cured 8oz./sq.yd. 65% polyester/ 35% cotton, Graniteville Chetopa IV, Brown 67010-11 Soft Touch fabric.

**\*-A,B Linings:** The skirt shall be fully lined with hi-count satin. It shall have rear darts and front pleats like the shell fabric. The back of the lining shall have a hemmed opening to allow for movement. The lining shall be serged.

**\*-C Linings:** None

**\*-\* Zipper:** Nylon coil zipper 9" long.

#### Detail Design Characteristics

**\*-\* Darts:** There shall be one dart, 3-1/2 inches in length on each side of the front and on each side of each back panel.

**\*-\* Pleats:** There shall be an open kick pleat in the center back seam, 16" below the waistband. The kick pleat shall be 2-1/4" deep, open toward the right side seam and be secured at the top with a diagonal topstitch.

## ATTACHMENT D

- \*\_\* **Waistband:** The waistband shall be 1 ¼" wide and shall have a reinforced closure: a clear 22-ligne button on the inside of the waistband and a matching 22-ligne button on the outside. The skirt shall be made with a continuous closed waistband. There shall be 2 elastic inserts behind each sideseam, which allows the waistband to stretch 2 ½". The waistband shall be set on the outside and closed by topstitching 1/16" from the lower edge of the band. The inner waistband edge shall be bound with ¼" black twill.
- \*\_\* **Pockets:** The side pockets shall have a 6.5 inch opening, be 5-1/2 inch deep from bottom of pocket opening, be made from 260 wt. pocketing material and have self goods pocket facings. The pockets shall be sewn and stitched, turned and restitched. The pocket opening shall have straight bartacks at each end. The front edge of the pocket opening shall be topstitched 1/16".

### Sizes and Measurements

#### Finished Dimensions

- \*\_\* **Sizes:** Petite: 4-14 even increments  
Regular: 2-30 even increments  
Tall: 8-24 even increments



## ATTACHMENT D

### C508 Strap, Black, Leather, Chin

**Sample Size:** No size

#### GENERAL DESCRIPTION

One piece black chin strap for duty hat with belt style buckle.

**TYPE ITEMS:** \*--Male and Female

#### CLASSIFICATION

\* All Straps

#### SALIENT CHARACTERISTICS

##### Components

\* **Basic Material:** The material shall be Grade A leather, dyed black with silver belt style buckle.

\* **Label:** See general reference and requirements sheet.

##### General Instructions

\* **Construction:** Length shall be 30", width to be 3/8", and thickness shall be 1/16".

##### Detail Design Characteristics

##### Sizes and Measurements

**Sizes:** One size.

## ATTACHMENT D

### C512 Sweater, Black Acrylic, Lightweight Commando Pullover

Specifications are identical for the following other component:

### N594 Sweater, Green Acrylic, Lightweight Commando Pullover

**Sample Size:** All dimensions are based on Male size L and Female size M

#### GENERAL DESCRIPTION

100% Piltrol Acrylic sweater is a pullover design with elbow patches, a V-neck opening and a sleeve emblem.

**TYPE ITEMS:** \*--Male and Female

CLASSIFICATION	COE # (M/F)	NPS # (M/F)
*All Sweaters	*	*
A Black	C512	
B Green		N594

#### SALIENT CHARACTERISTICS

##### Components

- \*-A **Basic Material:** The body of the sweater shall be constructed with a jersey stitch and a yarn count of 2/24 using a black 100% acrylic yarn treated with Piltrol to reduce piling.
- \*-B **Basic Material:** The body of the sweater shall be constructed with a jersey stitch and a yarn count of 2/24 using a Forest Green 100% acrylic yarn treated with Piltrol to reduce piling.

##### General Instructions

- \* **Front:** The front has taped shoulders using 3/16" cotton tape and has a nameplate holder located inside the right chest and a badge tab holder located inside the left chest. The bottom transfer shall be 3" wide and shall be a 1x1 rib with elastic.
- \*-A **Trim:** Black neck trim shall be 100% Piltro Acrylic and finishes 1 3/8". The yarn count shall be 2/24 and shall be knitted as a 1x1 rib.
- \*-B **Trim:** Forest Green neck trim shall be 100% Piltro Acrylic and finishes 1 3/8". The yarn count shall be 2/24 and shall be knitted as a 1x1 rib.
- \*-A **Sleeves:** The long sleeve has a 5" wide transfer of a 1x1 rib with elastic. The U.S. Army Corps of Engineers emblem is sewn on the left sleeve with nylon matching thread 1 1/2" to 1 3/4" down from the shoulder seam depending on the garment size. Each sleeve has an elbow patch made of black 65% polyester/35% cotton 8.5 ounce twill set 2" above the ribbed cuff.
- \*-B **Sleeves:** The long sleeve has a 5" wide transfer of a 1x1 rib with elastic. The U.S. National Park Service emblem is sewn on the left sleeve with nylon matching thread 1 1/2" to 1 3/4" down from the shoulder seam depending on the size. Each sleeve has an elbow patch made of Forest Green 65% polyester/35% cotton 8.5 ounces twill set 2" above the ribbed cuff.
- \*-A **Badge Tab:** Inside reinforcement of black twill finishes approximately 1" wide by 2" long.
- \*-B **Badge Tab:** Inside reinforcement of green twill finishes approximately 1" wide by 2" long.

## ATTACHMENT D

- \*-A     **Nameplate:** Inside reinforcement strip of black twill finishes 1" wide and 2" long.
- \*-B     **Nameplate:** Inside reinforcement strip of Forest Green twill finishes 1" wide and 2" long.
- \*       **Emblems:** Official U.S. Army Corps of Engineers emblem shall be attached on the left sleeve.
- \*       **Labels:** See references and requirements section.

## ATTACHMENT D

**C517    Sweater, Male, Green Acrylic**

**Specifications are identical for the following other components:**

**F516    Sweater, Male, Brown Acrylic, Cardigan**

**F524    Sweater, Female, Brown Acrylic, Cardigan**

**C525    Sweater, Female, Green Acrylic**

**F521    Sweater, Unisex, Blue Acrylic, Cardigan Volunteer**

Sample Size: All dimensions are based on Male size M and Female size L.

### GENERAL DESCRIPTION

The sweater is a long sleeve cardigan sweater, 100% acrylic.

<b>TYPE ITEMS:</b>	*--All Sweaters	Type I - Male	Type II - Female
<b>CLASSIFICATION</b>	<b>FWS # (M/F)</b>	<b>COE #(M/F)</b>	
*All Sweaters	*	*	
	F516/F524/F521	C517/525	

### SALIENT CHARACTERISTICS

#### Components

#### Type/Class

- I-\*    **Basic Material:** The sweater shall be 100% acrylic. Colors are Blue, Brown and Green. The material for the sweater shall be a cardigan type with 6 buttons. It shall have a rib knit border around the neckline and down the front. It shall have two lower front inside hanging pockets.
- II-\*    **Basic Material:** The sweater shall be 100% acrylic. Colors are Blue, Brown and Green. The material for the sweater shall be a cardigan with 5 buttons. It shall have a rib knit border around the neckline and down the front. It shall have two lower inside hanging pockets.
- \*    **Thread:** The thread for all operations shall be cotton/poly, ticket number 60, color brown. The stitches per inch shall be 8-12 for all operations.
- I-\*    **Buttons:** Six pearlescent brown buttons shall be sewn to right front border, one at top at curve break, one in waistband about bottom, and others equally spaced in between.
- II-\*    **Buttons:** Six pearlescent brown buttons shall be sewn to left front border, one at top at curve break, one in waistband about bottom, and others equally spaced in between.
- \*    **Labels:** See general reference and requirements sheet.

#### General Instructions

- \*    **Cutting:** N/A
- \*    **Stitching:** Shoulder, armhole, sleeve, and side seams shall be joined with stitch type 504.

## ATTACHMENT D

- I-\* **Buttonholes:** Six buttonholes shall be sewn into left front border with matching locations to buttons. Buttonholes shall be straight style, bartacked at each end, centered and located vertically on the border.
- II-\* **Buttonholes:** Six buttonholes shall be sewn into left front border with matching locations to buttons. Buttonholes shall be straight style, bartacked at each end, centered and located vertically on the border.

### Detail Design Characteristics

- \* **Front:** A continuous strip of rib knit shall be sewn to one front edge at top of rib knit waistband, up along front, around neckline and down other front to waistband. The facing strip shall be folded back to inside and blindstitched or the underside along the front-neckline-front seam. Fronts and backs shall have wales in length direction.
- I-\* **Pockets:** Two hanging single welt pocket shall be 3 ¾" up from waistband, with inner edge 3- 3 ½" from front edge. The pocket welt shall be rib knit that shall finish 1" wide with an 4 ¼" opening and depth of 4 3/8". The pocket shall be self material on one side, pocketing on the other. Ends of pocket openings shall be securely stitched down.
- II-\* **Pockets:** Two hanging single welt pocket shall be 3 ¾" up from waistband, with inner edge 3- 3 ½" from front edge. The pocket welt shall be rib knit that shall finish 1" wide with an 4 ½" opening and depth of 4 3/8". The pocket shall be self material on one side, pocketing on the other. Ends of pocket openings shall be securely stitched down.
- I-\* **Waistband:** Waistband shall be wide rib knit finishing with a 3" hem.
- II-\* **Waistband:** Waistband shall be wide rib knit finishing with a 2 - 2 ½" hem.
- \* **Sleeves:** One piece sleeves with wales in length direction.
- \* **Cuffs:** Cuffs shall be wide rib knit 2 ½" wide. Cuffs shall be attached to sleeve with 405 stitch type.

### Sizes and Measurements

#### Finished Dimensions

- I-\* **Sizes:** Regular S, XXL, Long M - XXL
- II-\* **Sizes:** XS - XL

## ATTACHMENT D

### C525 Sweater, Female, Green Acrylic

Specifications are identical for the following other components:

F516 Sweater, Male, Brown Acrylic, Cardigan  
F524 Sweater, Female, Brown Acrylic, Cardigan  
C517 Sweater, Male, Green Acrylic  
F521 Sweater, Unisex, Blue Acrylic, Cardigan Volunteer

Sample Size: All dimensions are based on Male size M and Female size L.

### GENERAL DESCRIPTION

The sweater is a long sleeve cardigan sweater, 100% acrylic.

**TYPE ITEMS:**           \*--All Sweaters           Type I - Male    Type II - Female

**CLASSIFICATION**   **FWS # (M/F)**           **COE #(M/F)**

*All Sweaters	*	*
	F516/F524/F521	C517/525

### SALIENT CHARACTERISTICS

#### Components

#### Type/Class

- I-\* **Basic Material:** The sweater shall be 100% acrylic. Colors are blue, brown, and green. The material for the sweater shall be a cardigan type with 6 buttons. It shall have a rib knit border around the neckline and down the front. It shall have two lower front inside hanging pockets.
- II-\* **Basic Material:** The sweater shall be 100% acrylic. Colors are blue, brown, and green. The material for the sweater shall be a cardigan with 5 buttons. It shall have a rib knit border around the neckline and down the front. It shall have two lower inside hanging pockets.
- \* **Thread:** The thread for all operations shall be cotton/poly, ticket number 60, color brown. The stitches per inch shall be 8-12 for all operations.
- I-\* **Buttons:** Six pearlescent brown buttons shall be sewn to right front border, one at top at curve break, one in waistband about bottom, and others equally spaced in between.
- II-\* **Buttons:** Six pearlescent brown buttons shall be sewn to left front border, one at top at curve break, one in waistband about bottom, and others equally spaced in between.
- \* **Labels:** See general reference and requirements sheet.

#### General Instructions

- \* **Cutting:** N/A
- \* **Stitching:** Shoulder, armhole, sleeve, and side seams shall be joined with stitch type 504.
- I-\* **Buttonholes:** Six buttonholes shall be sewn into left front border with matching locations to buttons. Buttonholes shall be straight style, bartacked at each end, centered and located vertically on the border.

## ATTACHMENT D

- II-\* **Buttonholes:** Six buttonholes shall be sewn into left front border with matching locations to buttons. Buttonholes shall be straight style, bartacked at each end, centered and located vertically on the border.

### Detail Design Characteristics

- \* **Front:** A continuous strip of rib knit shall be sewn to one front edge at top of rib knit waistband, up along front, around neckline and down other front to waistband. The facing strip shall be folded back to inside and blindstitched or the underside along the front-neckline-front seam. Fronts and backs shall have wales in length direction.
- I-\* **Pockets:** Two hanging single welt pocket shall be 3 ¾" up from waistband, with inner edge 3- 3 ½" from front edge. The pocket welt shall be rib knit that shall finish 1" wide with an 4 ¼" opening and depth of 4 3/8". The pocket shall be self material on one side, pocketing on the other. Ends of pocket openings shall be securely stitched down.
- II-\* **Pockets:** Two hanging single welt pocket shall be 3 ¾" up from waistband, with inner edge 3- 3 ½" from front edge. The pocket welt shall be rib knit that shall finish 1" wide with an 4 ½" opening and depth of 4 3/8". The pocket shall be self material on one side, pocketing on the other. Ends of pocket openings shall be securely stitched down.
- I-\* **Waistband:** Waistband shall be wide rib knit finishing with a 3" hem.
- II-\* **Waistband:** Waistband shall be wide rib knit finishing with a 2 - 2 ½" hem.
- \* **Sleeves:** One piece sleeves with wales in length direction.
- \* **Cuffs:** Cuffs shall be wide rib knit 2 ½" wide. Cuffs shall be attached to sleeve with 405 stitch type.

### Sizes and Measurements

#### Finished Dimensions

- I-\* **Sizes:** Regular S, XXL, Long M - XXL
- II-\* **Sizes:** XS - XL

## ATTACHMENT D

### C530 Tie Bar

**Sample Size:** One size

#### GENERAL DESCRIPTION

U.S. Army Corps of Engineers castle ensign tie bar. Separate designs to fit male and female shirts.

**TYPE ITEMS:** \* -- Male and Female

#### CLASSIFICATION

\* All Items

#### SALIENT CHARACTERISTICS

##### Components

\* **Basic Material:** The material shall be a gold plated brass tie bar with castle.

\* **Label:** See general reference and requirements sheet.

##### General Instructions

\* **Construction:** Castle to be 3/8" wide permanently affixed to tie bar. Tie bar to be 5/16" wide and 2" in length. Thickness is approximately 1/32". Gold plated to have high gloss finish.



## ATTACHMENT D

### C532 Tie Bar

**Sample Size:** One size

#### GENERAL DESCRIPTION

U.S. Army Corps of Engineers castle ensign tie tac

**TYPE ITEMS:** \* -- Male and Female

#### CLASSIFICATION

\* All Items

#### SALIENT CHARACTERISTICS

##### Components

\* **Basic Material:** The material shall be 22 karat gold plated over pewter.

\* **Label:** See general reference and requirements sheet.

##### General Instructions

\* **Construction:** U.S. Army Corps of Engineers castle ensign tie tac. The tie tac is  $\frac{3}{4}$ " long and  $\frac{1}{2}$ " wide. Length of post is  $\frac{7}{16}$ ", pin back with grabber to prevent spinning.

## ATTACHMENT D

**C537 Tie, Unisex, Black P/W Tropical, Clip-on, Extra Long**

**Specifications are identical for the following other components:**

**F533 Tie, Unisex, Brown Polyester, Standard, Regular Length**  
**C538 Tie, Unisex, Black P/W Tropical, Clip-on, Double Extra Long**  
**C539 Tie, Unisex, Black P/W Tropical, Clip-on, Regular Length**  
**C540 Tie, Unisex, Black P/W Tropical, Standard**  
**F541 Tie, Unisex, Brown Polyester, Clip-on, Extra Long**  
**F542 Tie, Unisex, Brown Polyester, Clip-on, Regular Length**  
**N543 Tie, Unisex, Green P/W Tropical, Clip-on, Extra Long**  
**N544 Tie, Unisex, Green P/W Tropical, Clip-on, Regular Length**  
**N545 Tie, Unisex, Green P/W Tropical, Standard**

**C547 Tie, Unisex, Black P/W Tropical, Clip-on**  
**C548 Tie, Female, Black P/W Tropical, Cross-over**  
**F549 Tie, Female, Brown Polyester, Cross-over**  
**F550 Tie, Unisex, Brown Polyester, Clip-on, Regular Length**  
**N616 Tie, Female, Green P/W Tropical, Cross-over**  
**N617 Tie, Unisex, Green P/W Tropical, Clip-on, Regular Length**

**Sample Size:** See Table.

### GENERAL DESCRIPTION

Standard four-in-hand ties shall be Samuel Broome style #455 or equal.  
Metal clip-on ties shall be Samuel Broome style #455 or equal.  
Mock continental cross-over ties shall be Samuel Broome style #455 TV or equal.

TYPE ITEMS: \*--All Ties

### CLASSIFICATION

See Table.

## ATTACHMENT D

### SALIENT CHARACTERISTICS

SPEC #	SEX	TYPE	CLASS	COLOR	LENGTH	WIDTH
F533	M/F	Reg Standard	B	Brown	56 3/4"	3 - 3 1/4"
C537	M/F	XL Clip-on	A	Black	19"	3 - 3 1/4"
C538	M/F	XXL Clip-on	A	Black	22"	3 - 3 1/4"
C539	M/F	Reg Clip-on	A	Black	17"	3 - 3 1/4"
C540	M/F	Reg Standard	A	Black	56 3/4"	3 - 3 1/4"
F541	M/F	XL Clip-on	B	Brown	19"	3 - 3 1/4"
F542	M/F	Reg Clip-on	B	Brown	17"	3 - 3 1/4"
N543	M/F	XL Clip-on	A	Green	19"	3 - 3 1/4"
N544	M/F	Reg Clip-on	A	Green	17"	3 - 3 1/4"
N545	M/F	Reg Standard	A	Green	56 3/4"	3 - 3 1/4"
C547	M/F	ShortClip-on	A	Black	14"	3 - 3 1/4"
C548	F	Cross-over	A	Black	20 1/2" snap to snap 26 1/2" point to point	1 3/4"
F549	F	Cross-over	B	Brown	20 1/2" snap to snap 26 1/2" point to point	1 3/4"
F550	M/F	ShortClip-on	B	Brown	14"	3 - 3 1/4"
N616	F	Cross-over	A	Green	20 1/2" snap to snap 26 1/2" point to point	1 3/4"
N617	M/F	ShortClip-on	A	Green	14"	3 - 3 1/4"

### Components

\*-A **Basic Material:** The material shall be 75/25 Polyester/Wool, Tropical Weave

\*-B **Basic Material:** The material shall be 100% Texturized Polyester, Plain Weave, 4 -5 oz/yd<sup>2</sup>

### General Instructions

**Class A and B:** All ties shall finish flat and smooth without visible wrinkles, fabric flaws, stitching, or splicing.

**Class B:** Polyester ties shall have acrylic interlining and a soil release, low stretch finish for washability. Each tie shall have a label stating the manufacturer and contents. Each tie shall be shipped with a shape-retention cardboard insert.

Cross-over ties shall finish flat and smooth without visible wrinkles, fabric flaws, stitching or splicing.

## ATTACHMENT D

**C538 Tie, Unisex, Black P/W Tropical, Clip-on, Double Extra Long**

**Specifications are identical for the following other components:**

**F533 Tie, Unisex, Brown Polyester, Standard, Regular Length**  
**C537 Tie, Unisex, Black P/W Tropical, Clip-on, Extra Long**  
**C539 Tie, Unisex, Black P/W Tropical, Clip-on, Regular Length**  
**C540 Tie, Unisex, Black P/W Tropical, Standard**  
**F541 Tie, Unisex, Brown Polyester, Clip-on, Extra Long**  
**F542 Tie, Unisex, Brown Polyester, Clip-on, Regular Length**  
**N543 Tie, Unisex, Green P/W Tropical, Clip-on, Extra Long**  
**N544 Tie, Unisex, Green P/W Tropical, Clip-on, Regular Length**  
**N545 Tie, Unisex, Green P/W Tropical, Standard**

**C547 Tie, Unisex, Black P/W Tropical, Clip-on**  
**C548 Tie, Female, Black P/W Tropical, Cross-over**  
**F549 Tie, Female, Brown Polyester, Cross-over**  
**F550 Tie, Unisex, Brown Polyester, Clip-on, Regular Length**  
**N616 Tie, Female, Green P/W Tropical, Cross-over**  
**N617 Tie, Unisex, Green P/W Tropical, Clip-on, Regular Length**

**Sample Size:** See Table.

### GENERAL DESCRIPTION

Standard four-in-hand ties shall be Samuel Broome style #455 or equal.  
Metal clip-on ties shall be Samuel Broome style #455 or equal.  
Mock continental cross-over ties shall be Samuel Broome style #455 TV or equal.

**TYPE ITEMS:** \*--All Ties

### CLASSIFICATION

See Table.

## ATTACHMENT D

### SALIENT CHARACTERISTICS

SPEC #	SEX	TYPE	CLASS	COLOR	LENGTH	WIDTH
F533	M/F	Reg Standard	B	Brown	56 3/4"	3 - 3 1/4"
C537	M/F	XL Clip-on	A	Black	19"	3 - 3 1/4"
C538	M/F	XXL Clip-on	A	Black	22"	3 - 3 1/4"
C539	M/F	Reg Clip-on	A	Black	17"	3 - 3 1/4"
C540	M/F	Reg Standard	A	Black	56 3/4"	3 - 3 1/4"
F541	M/F	XL Clip-on	B	Brown	19"	3 - 3 1/4"
F542	M/F	Reg Clip-on	B	Brown	17"	3 - 3 1/4"
N543	M/F	XL Clip-on	A	Green	19"	3 - 3 1/4"
N544	M/F	Reg Clip-on	A	Green	17"	3 - 3 1/4"
N545	M/F	Reg Standard	A	Green	56 3/4"	3 - 3 1/4"
C547	M/F	ShortClip-on	A	Black	14"	3 - 3 1/4"
C548	F	Cross-over	A	Black	20 1/2" snap to snap 26 1/2" point to point	1 3/4"
F549	F	Cross-over	B	Brown	20 1/2" snap to snap 26 1/2" point to point	1 3/4"
F550	M/F	ShortClip-on	B	Brown	14"	3 - 3 1/4"
N616	F	Cross-over	A	Green	20 1/2" snap to snap 26 1/2" point to point	1 3/4"
N617	M/F	ShortClip-on	A	Green	14"	3 - 3 1/4"

### Components

\*-A **Basic Material:** The material shall be 75/25 Polyester/Wool, Tropical Weave

\*-B **Basic Material:** The material shall be 100% Texturized Polyester, Plain Weave, 4 -5 oz/yd<sup>2</sup>

### General Instructions

**Class A and B:** All ties shall finish flat and smooth without visible wrinkles, fabric flaws, stitching, or splicing.

**Class B:** Polyester ties shall have acrylic interlining and a soil release, low stretch finish for washability. Each tie shall have a label stating the manufacturer and contents. Each tie shall be shipped with a shape-retention cardboard insert.

Cross-over ties shall finish flat and smooth without visible wrinkles, fabric flaws, stitching or splicing.

## ATTACHMENT D

**C539 Tie, Unisex, Black P/W Tropical, Clip-on, Regular Length**

**Specifications are identical for the following other components:**

**F533 Tie, Unisex, Brown Polyester, Standard, Regular Length**  
**C537 Tie, Unisex, Black P/W Tropical, Clip-on, Extra Long**  
**C538 Tie, Unisex, Black P/W Tropical, Clip-on, Double Extra Long**  
**C540 Tie, Unisex, Black P/W Tropical, Standard**  
**F541 Tie, Unisex, Brown Polyester, Clip-on, Extra Long**  
**F542 Tie, Unisex, Brown Polyester, Clip-on, Regular Length**  
**N543 Tie, Unisex, Green P/W Tropical, Clip-on, Extra Long**  
**N544 Tie, Unisex, Green P/W Tropical, Clip-on, Regular Length**  
**N545 Tie, Unisex, Green P/W Tropical, Standard**

**C547 Tie, Unisex, Black P/W Tropical, Clip-on**  
**C548 Tie, Female, Black P/W Tropical, Cross-over**  
**F549 Tie, Female, Brown Polyester, Cross-over**  
**F550 Tie, Unisex, Brown Polyester, Clip-on, Regular Length**  
**N616 Tie, Female, Green P/W Tropical, Cross-over**  
**N617 Tie, Unisex, Green P/W Tropical, Clip-on, Regular Length**

**Sample Size:** See Table.

### GENERAL DESCRIPTION

Standard four-in-hand ties shall be Samuel Broome style #455 or equal.  
Metal clip-on ties shall be Samuel Broome style #455 or equal.  
Mock continental cross-over ties shall be Samuel Broome style #455 TV or equal.

**TYPE ITEMS:** \*--All Ties

### CLASSIFICATION

See Table.

## ATTACHMENT D

### SALIENT CHARACTERISTICS

SPEC #	SEX	TYPE	CLASS	COLOR	LENGTH	WIDTH
F533	M/F	Reg Standard	B	Brown	56 3/4"	3 - 3 1/4"
C537	M/F	XL Clip-on	A	Black	19"	3 - 3 1/4"
C538	M/F	XXL Clip-on	A	Black	22"	3 - 3 1/4"
C539	M/F	Reg Clip-on	A	Black	17"	3 - 3 1/4"
C540	M/F	Reg Standard	A	Black	56 3/4"	3 - 3 1/4"
F541	M/F	XL Clip-on	B	Brown	19"	3 - 3 1/4"
F542	M/F	Reg Clip-on	B	Brown	17"	3 - 3 1/4"
N543	M/F	XL Clip-on	A	Green	19"	3 - 3 1/4"
N544	M/F	Reg Clip-on	A	Green	17"	3 - 3 1/4"
N545	M/F	Reg Standard	A	Green	56 3/4"	3 - 3 1/4"
C547	M/F	ShortClip-on	A	Black	14"	3 - 3 1/4"
C548	F	Cross-over	A	Black	20 1/2" snap to snap 26 1/2" point to point	1 3/4"
F549	F	Cross-over	B	Brown	20 1/2" snap to snap 26 1/2" point to point	1 3/4"
F550	M/F	ShortClip-on	B	Brown	14"	3 - 3 1/4"
N616	F	Cross-over	A	Green	20 1/2" snap to snap 26 1/2" point to point	1 3/4"
N617	M/F	ShortClip-on	A	Green	14"	3 - 3 1/4"

### Components

\*-A **Basic Material:** The material shall be 75/25 Polyester/Wool, Tropical Weave

\*-B **Basic Material:** The material shall be 100% Texturized Polyester, Plain Weave, 4 -5 oz/yd<sup>2</sup>

### General Instructions

**Class A and B:** All ties shall finish flat and smooth without visible wrinkles, fabric flaws, stitching, or splicing.

**Class B:** Polyester ties shall have acrylic interlining and a soil release, low stretch finish for washability. Each tie shall have a label stating the manufacturer and contents. Each tie shall be shipped with a shape-retention cardboard insert.

Cross-over ties shall finish flat and smooth without visible wrinkles, fabric flaws, stitching or splicing.

## ATTACHMENT D

**C540 Tie, Unisex, Black P/W Tropical, Standard**

**Specifications are identical for the following other components:**

**F533 Tie, Unisex, Brown Polyester, Standard, Regular Length**  
**C537 Tie, Unisex, Black P/W Tropical, Clip-on, Extra Long**  
**C538 Tie, Unisex, Black P/W Tropical, Clip-on, Double Extra Long**  
**C539 Tie, Unisex, Black P/W Tropical, Clip-on, Regular Length**  
**F541 Tie, Unisex, Brown Polyester, Clip-on, Extra Long**  
**F542 Tie, Unisex, Brown Polyester, Clip-on, Regular Length**  
**N543 Tie, Unisex, Green P/W Tropical, Clip-on, Extra Long**  
**N544 Tie, Unisex, Green P/W Tropical, Clip-on, Regular Length**  
**N545 Tie, Unisex, Green P/W Tropical, Standard**

**C547 Tie, Unisex, Black P/W Tropical, Clip-on**  
**C548 Tie, Female, Black P/W Tropical, Cross-over**  
**F549 Tie, Female, Brown Polyester, Cross-over**  
**F550 Tie, Unisex, Brown Polyester, Clip-on, Regular Length**  
**N616 Tie, Female, Green P/W Tropical, Cross-over**  
**N617 Tie, Unisex, Green P/W Tropical, Clip-on, Regular Length**

**Sample Size:** See Table.

### GENERAL DESCRIPTION

Standard four-in-hand ties shall be Samuel Broome style #455 or equal.  
Metal clip-on ties shall be Samuel Broome style #455 or equal.  
Mock continental cross-over ties shall be Samuel Broome style #455 TV or equal.

**TYPE ITEMS:** \*--All Ties

### CLASSIFICATION

See Table.



## ATTACHMENT D

### SALIENT CHARACTERISTICS

SPEC #	SEX	TYPE	CLASS	COLOR	LENGTH	WIDTH
F533	M/F	Reg Standard	B	Brown	56 3/4"	3 - 3 1/4"
C537	M/F	XL Clip-on	A	Black	19"	3 - 3 1/4"
C538	M/F	XXL Clip-on	A	Black	22"	3 - 3 1/4"
C539	M/F	Reg Clip-on	A	Black	17"	3 - 3 1/4"
C540	M/F	Reg Standard	A	Black	56 3/4"	3 - 3 1/4"
F541	M/F	XL Clip-on	B	Brown	19"	3 - 3 1/4"
F542	M/F	Reg Clip-on	B	Brown	17"	3 - 3 1/4"
N543	M/F	XL Clip-on	A	Green	19"	3 - 3 1/4"
N544	M/F	Reg Clip-on	A	Green	17"	3 - 3 1/4"
N545	M/F	Reg Standard	A	Green	56 3/4"	3 - 3 1/4"
C547	M/F	ShortClip-on	A	Black	14"	3 - 3 1/4"
C548	F	Cross-over	A	Black	20 1/2" snap to snap 26 1/2" point to point	1 3/4"
F549	F	Cross-over	B	Brown	20 1/2" snap to snap 26 1/2" point to point	1 3/4"
F550	M/F	ShortClip-on	B	Brown	14"	3 - 3 1/4"
N616	F	Cross-over	A	Green	20 1/2" snap to snap 26 1/2" point to point	1 3/4"
N617	M/F	ShortClip-on	A	Green	14"	3 - 3 1/4"

### Components

\*-A **Basic Material:** The material shall be 75/25 Polyester/Wool, Tropical Weave

\*-B **Basic Material:** The material shall be 100% Texturized Polyester, Plain Weave, 4 -5 oz/yd<sup>2</sup>

### General Instructions

**Class A and B:** All ties shall finish flat and smooth without visible wrinkles, fabric flaws, stitching, or splicing.

**Class B:** Polyester ties shall have acrylic interlining and a soil release, low stretch finish for washability. Each tie shall have a label stating the manufacturer and contents. Each tie shall be shipped with a shape-retention cardboard insert.

Cross-over ties shall finish flat and smooth without visible wrinkles, fabric flaws, stitching or splicing.

## ATTACHMENT D

**C547 Tie, Unisex, Black P/W Tropical, Clip-on**

**Specifications are identical for the following other components:**

**F533 Tie, Unisex, Brown Polyester, Standard, Regular Length**  
**C537 Tie, Unisex, Black P/W Tropical, Clip-on, Extra Long**  
**C538 Tie, Unisex, Black P/W Tropical, Clip-on, Double Extra Long**  
**C539 Tie, Unisex, Black P/W Tropical, Clip-on, Regular Length**  
**C540 Tie, Unisex, Black P/W Tropical, Standard**  
**F541 Tie, Unisex, Brown Polyester, Clip-on, Extra Long**  
**F542 Tie, Unisex, Brown Polyester, Clip-on, Regular Length**  
**N543 Tie, Unisex, Green P/W Tropical, Clip-on, Extra Long**  
**N544 Tie, Unisex, Green P/W Tropical, Clip-on, Regular Length**  
**N545 Tie, Unisex, Green P/W Tropical, Standard**

**C548 Tie, Female, Black P/W Tropical, Cross-over**  
**F549 Tie, Female, Brown Polyester, Cross-over**  
**F550 Tie, Unisex, Brown Polyester, Clip-on, Regular Length**  
**N616 Tie, Female, Green P/W Tropical, Cross-over**  
**N617 Tie, Unisex, Green P/W Tropical, Clip-on, Regular Length**

**Sample Size:** See Table.

### GENERAL DESCRIPTION

Standard four-in-hand ties shall be Samuel Broome style #455 or equal.  
Metal clip-on ties shall be Samuel Broome style #455 or equal.  
Mock continental cross-over ties shall be Samuel Broome style #455 TV or equal.

**TYPE ITEMS:** \*--All Ties

### CLASSIFICATION

See Table.

## ATTACHMENT D

### SALIENT CHARACTERISTICS

SPEC #	SEX	TYPE	CLASS	COLOR	LENGTH	WIDTH
F533	M/F	Reg Standard	B	Brown	56 3/4"	3 - 3 1/4"
C537	M/F	XL Clip-on	A	Black	19"	3 - 3 1/4"
C538	M/F	XXL Clip-on	A	Black	22"	3 - 3 1/4"
C539	M/F	Reg Clip-on	A	Black	17"	3 - 3 1/4"
C540	M/F	Reg Standard	A	Black	56 3/4"	3 - 3 1/4"
F541	M/F	XL Clip-on	B	Brown	19"	3 - 3 1/4"
F542	M/F	Reg Clip-on	B	Brown	17"	3 - 3 1/4"
N543	M/F	XL Clip-on	A	Green	19"	3 - 3 1/4"
N544	M/F	Reg Clip-on	A	Green	17"	3 - 3 1/4"
N545	M/F	Reg Standard	A	Green	56 3/4"	3 - 3 1/4"
C547	M/F	ShortClip-on	A	Black	14"	3 - 3 1/4"
C548	F	Cross-over	A	Black	20 1/2" snap to snap 26 1/2" point to point	1 3/4"
F549	F	Cross-over	B	Brown	20 1/2" snap to snap 26 1/2" point to point	1 3/4"
F550	M/F	ShortClip-on	B	Brown	14"	3 - 3 1/4"
N616	F	Cross-over	A	Green	20 1/2" snap to snap 26 1/2" point to point	1 3/4"
N617	M/F	ShortClip-on	A	Green	14"	3 - 3 1/4"

### Components

\*-A **Basic Material:** The material shall be 75/25 Polyester/Wool, Tropical Weave

\*-B **Basic Material:** The material shall be 100% Texturized Polyester, Plain Weave, 4 -5 oz/yd<sup>2</sup>

### General Instructions

**Class A and B:** All ties shall finish flat and smooth without visible wrinkles, fabric flaws, stitching, or splicing.

**Class B:** Polyester ties shall have acrylic interlining and a soil release, low stretch finish for washability. Each tie shall have a label stating the manufacturer and contents. Each tie shall be shipped with a shape-retention cardboard insert.

Cross-over ties shall finish flat and smooth without visible wrinkles, fabric flaws, stitching or splicing.

## ATTACHMENT D

**C548 Tie, Female, Black P/W Tropical, Cross-over**

**Specifications are identical for the following other components:**

**F533 Tie, Unisex, Brown Polyester, Standard, Regular Length**  
**C537 Tie, Unisex, Black P/W Tropical, Clip-on, Extra Long**  
**C538 Tie, Unisex, Black P/W Tropical, Clip-on, Double Extra Long**  
**C539 Tie, Unisex, Black P/W Tropical, Clip-on, Regular Length**  
**C540 Tie, Unisex, Black P/W Tropical, Standard**  
**F541 Tie, Unisex, Brown Polyester, Clip-on, Extra Long**  
**F542 Tie, Unisex, Brown Polyester, Clip-on, Regular Length**  
**N543 Tie, Unisex, Green P/W Tropical, Clip-on, Extra Long**  
**N544 Tie, Unisex, Green P/W Tropical, Clip-on, Regular Length**  
**N545 Tie, Unisex, Green P/W Tropical, Standard**

**C547 Tie, Unisex, Black P/W Tropical, Clip-on**  
**F549 Tie, Female, Brown Polyester, Cross-over**  
**F550 Tie, Unisex, Brown Polyester, Clip-on, Regular Length**  
**N616 Tie, Female, Green P/W Tropical, Cross-over**  
**N617 Tie, Unisex, Green P/W Tropical, Clip-on, Regular Length**

**Sample Size:** See Table.

### GENERAL DESCRIPTION

Standard four-in-hand ties shall be Samuel Broome style #455 or equal.  
Metal clip-on ties shall be Samuel Broome style #455 or equal.  
Mock continental cross-over ties shall be Samuel Broome style #455 TV or equal.

**TYPE ITEMS:** \*--All Ties

### CLASSIFICATION

See Table.

## ATTACHMENT D

### SALIENT CHARACTERISTICS

SPEC #	SEX	TYPE	CLASS	COLOR	LENGTH	WIDTH
F533	M/F	Reg Standard	B	Brown	56 3/4"	3 - 3 1/4"
C537	M/F	XL Clip-on	A	Black	19"	3 - 3 1/4"
C538	M/F	XXL Clip-on	A	Black	22"	3 - 3 1/4"
C539	M/F	Reg Clip-on	A	Black	17"	3 - 3 1/4"
C540	M/F	Reg Standard	A	Black	56 3/4"	3 - 3 1/4"
F541	M/F	XL Clip-on	B	Brown	19"	3 - 3 1/4"
F542	M/F	Reg Clip-on	B	Brown	17"	3 - 3 1/4"
N543	M/F	XL Clip-on	A	Green	19"	3 - 3 1/4"
N544	M/F	Reg Clip-on	A	Green	17"	3 - 3 1/4"
N545	M/F	Reg Standard	A	Green	56 3/4"	3 - 3 1/4"
C547	M/F	ShortClip-on	A	Black	14"	3 - 3 1/4"
C548	F	Cross-over	A	Black	20 1/2" snap to snap 26 1/2" point to point	1 3/4"
F549	F	Cross-over	B	Brown	20 1/2" snap to snap 26 1/2" point to point	1 3/4"
F550	M/F	ShortClip-on	B	Brown	14"	3 - 3 1/4"
N616	F	Cross-over	A	Green	20 1/2" snap to snap 26 1/2" point to point	1 3/4"
N617	M/F	ShortClip-on	A	Green	14"	3 - 3 1/4"

### Components

\*-A **Basic Material:** The material shall be 75/25 Polyester/Wool, Tropical Weave

\*-B **Basic Material:** The material shall be 100% Texturized Polyester, Plain Weave, 4 -5 oz/yd<sup>2</sup>

### General Instructions

**Class A and B:** All ties shall finish flat and smooth without visible wrinkles, fabric flaws, stitching, or splicing.

**Class B:** Polyester ties shall have acrylic interlining and a soil release, low stretch finish for washability. Each tie shall have a label stating the manufacturer and contents. Each tie shall be shipped with a shape-retention cardboard insert.

Cross-over ties shall finish flat and smooth without visible wrinkles, fabric flaws, stitching or splicing.

## ATTACHMENT D

**C555 Trousers, Male, Green 11 Oz. 55/45 P/W Tropical**

**Specifications are identical for the following other components:**

**N554 Trousers, Male, Green 11 Oz. 55/45 P/W Tropical**  
**N556 Trousers, Male, Green 16 Oz. 55/45 P/W Elastique**  
**C557 Trousers, Male, Green 16 Oz. 55/45 P/W Elastique**  
**C562 Trousers, Male, Grey, 11 Oz. P/W Tropical**  
**C574 Trousers, Female, Green 11 Oz. 55/45 P/W Tropical**  
**N575 Trousers, Female, Green 11 Oz. 55/45 P/W Tropical**  
**C570 Trousers, Female, Green 16 Oz. 55/45 P/W Elastique**  
**N576 Trousers, Female, Green 16 Oz. 55/45 P/W Elastique**

**Sample Size:** All dimensions are based on Male size 36R and Female size 12R

### GENERAL DESCRIPTION

Plain Front with a slight flare at bottom. Quarter top front pockets, two back pockets, French fly with hook and eye closure, and two back darts. There shall be two darts on the front panel of the female's trousers and no darts on the front of the male's trousers.

**TYPE ITEMS:** \*-Male and Female      Type I—Male      Type II—Female

<b>CLASSIFICATION</b>		<b>NPS (M/F)</b>	<b>COE (M/F)</b>
*	All Trousers	*	*
A	Elastique Trousers	N556/N576	C557/C570
B	Tropical Trousers	N554/N575	C555/ C574/C562

### SALIENT CHARACTERISTICS

#### Components

- \*-A      **Basic Material:** Raeford Mills 16-ounce Forest Green 55% Dacron Polyester/45% Wool Elastique fabric.
- \*-B      **Basic Material:** Raeford Mills 11-ounce Forest Green 55% Dacron Polyester/45% Wool Tropical fabric.
- \*      **Linings:** The material used for pockets, waistband lining and fly lining shall be suitable quality black fabric for dress trousers.
- \*      **Thread:** All thread, except #8 cotton buttonhole gimp, shall be cotton covered polyester conforming to ticket numbers 50-3 ply and 70-2 ply of MIT-T-43548. The color shall match the self-material shade. Size 50-3 ply shall be used for all sewing operations except that 70-2 ply may be used for overedging operations.
- \*      **Button Holes:** Buttonholes shall be eyelet, square bar, gimp reinforced type.
- \*      **Buttons:** The buttons for hip pockets and French fly shall be flat 4-hole, 24 ligne polyester type in plain style, and in a shade similar to or slightly darker than the basic fabric. The buttons for the hip pocket shall be Melamine Potomac M3762, 4 hole, 24 ligne, Forest Green.
- \*      **Zipper:** A brass memory lock slider and zipper with a brass bottom stop at the base of the zipper chain shall be used.

## ATTACHMENT D

- \* **Labels:** See general reference and requirements sheet.

### General Instructions

- I-\* **Stitching:** Center back turnunder shall be no less than 2" to take care of any alterations and the seat seam shall be sewn on a double needle chain stitch (401) machine, having tandem needles with an offset of 1/32nd of an inch. The inseams and outseams, seam allowances shall be 1" wide and sewn with a single needle chain stitch (401) and pressed open inside. All other seams shall use lock stitch (301). All exposed raw edges shall be serged (503 or 504) to prevent raveling. 10-16 stitches per inch are required, except for 5 to 7 stitches per inch for blindstitching.
- II-\* **Stitching:** The seat seam shall be stitched with a tandem needle seat-seaming machine. There shall be a center back seam allowance of no less than 1 5/8" to take care of alterations. 10-16 stitches per inch are required, except for 5 to 7 stitches per inch for blindstitching.
- \* **Bartacks:** There shall be bartacks at all points of strain including base of fly curve, inside bottom edge of fly and all pocket openings. Front pocket openings shall be bartacked at bottom and at top beneath waistband. Each end of hip pockets shall be bartacked. Eye closure in waistband shall be bartacked. All bartacks shall be 3/8 to 1/2" in length.

### Detail Design Characteristics

- II-\* **Front Panel:** The trouser shall have a reinforced panel on each front. It shall be constructed of the same fabric as the pocketing. It shall extend from the waistband topstitch seam approximately 4". The back edge shall be folded and topstitched to the front edge of each front pocket bag. The front edge of each reinforced panel shall be stitched to the fly. The bottom edge of the bellyband shall be tightly serged so it shall not ravel.
- I-\* **Crotch and Fly:** The zipper stay is to be cut of matching specified trim and to be the exact size as the fly and to be serged together. The French fly is to be made of the same material as the trouser. The zipper to be not less than 1/2 inch under the opening. The fly lining is to have a tail covering inseam and crotch. Crotch is to be lined front and back, four quarter, with a double thickness of matching specified trim fabric. The fly shall also have a tab and button closure at the bottom of the waistband. The tab shall be made of basic material.
- II-\* **Crotch and Fly:** The right fly shall be the same fabric and color as the waistband curtain. The right fly lining shall be sewn to the left fly below the zipper. The right fly lining shall extend to within 1" of the inseams joining seam.
- II-\* **Darts:** There shall be one tapering dart over each hip pocket and one on each front panel. The purpose of the darts is to contour the garment to a true female fit. The front darts shall be approximately 3" long from the waistband. The hip pocket darts shall extend from the waistband to the top of the hip pocket.

## ATTACHMENT D

- I-\***      **Waistband:** The waistband shall be 2" wide and shall be closed with a crush proof hook and eye, the eye being bartacked for stability. The finished waistband curtain, 2 3/8" wide, shall be attached with a rocap machine. The waistband curtain shall be made of the specified trim and shall have 3 strand Snug-tex sewn into the waistband lining. Snug-tex sewn on to the top of the waistband lining shall not be authorized. Trousers shall have banrol waistband stabilizer sewn into the waistband on the front of the trousers from side seam to side seam. Trousers shall be made with a continuous closed waistband using the closed corner method. The waistband shall be set on and shall be stitched below the lower edge through the outer fabric and the waistband curtain.
- II-\***      **Waistband:** The waistband shall be 1 1/4" wide and shall be closed with a crushproof hook and eye, the eye being bartacked for stability. The waistband curtain shall be attached with a rocap machine. The curtain shall finish 1 1/2" wide and be interlined with a nonwoven. No banrol shall be used. The waistband shall be set on and stitched below the lower edge through the outer fabric and the waistband curtain. There shall be an elastic insert on each side of the trouser. It shall allow the trouser to expand a minimum of 1 1/2" on each side. The elastic shall be one inch wide. The elastic shall be secured on the inside of the waistband curtain on each end with a minimum 1" vertical stitch.
- I-\***      **Front Pockets--** Quarter top style with a deep facing of self cloth in order that pocketing does not show. Pocketing shall be made of the specified trim fabric and to be stitched, turned and topstitched. Merrowed edges shall not be acceptable. Pocket opening shall be a minimum of 6 1/2" and pocket depth 10 1/2" to top of slant. Facing shall be a minimum of 1 1/2".
- II-\***      **Front Pockets--** The front pocket opening shall be a minimum 6" and a minimum of 5 1/2" deep from the bottom of the opening. They shall be stitched, turned and restitched. The inside front pocket facing shall be a separate piece of self material finishing no less than 1 1/4" wide. The front pockets shall have straight bartacks.
- I-\***      **Back Pockets--** Two single welt slash pockets with flaps inserted into top - edge. Pocket to finish a minimum of 6 1/4" deep by 5 3/4" wide. Facings shall be minimum of 1" deep of self-material in the body side. Pocketing shall be top stitched. Pocketing shall extend up to and be caught in waistband seam to prevent sagging.
- II-\***      **Back Pockets--** The back pockets shall have a minimum opening of 5 1/2" wide and shall be a minimum of 6" deep on size 14 and up. On size 12 and down, the minimum opening shall be 5" wide and 6" deep. They shall be finished on the outside with an exposed top and bottom cord, with flaps inserted into the top edge. The top and bottom pocket beads shall be approximately 1/8" in width, interlined with pellon. Facings shall be minimum of 1" deep of self-material on the body side. Pocketing shall be stitched, turned and restitched. Pocketing shall extend up to and be caught in waistband seam to prevent sagging. The back pockets shall have straight bartacks.
- \***      **Hip Pocket Flap:** Flap shall be constructed of basic fabric and lined with the specified trim. It shall be constructed with a concealed button hole tab so that bottom closure is concealed. No stitching shall show on the outside of the flap. The flap shall be spade style with a single point. The flap shall measure 1 1/4" on the sides 2 1/4" at the point and the width of the pocket welt.
- I-\***      **Belt Loops:** There shall be 7 belt loops. Belt loops shall be lined with no stitching to show on the outside and shall be 2 1/4" high and 1" wide. All loops to be inserted into both the top and bottom waistband seams with the exception of the back center loop.
- II-\***      **Belt Loops:** There shall be a minimum of 5 belt loops on waist sizes 12 and down, and a minimum of 7 on all sizes over 14. Each loop is to be 1" wide, of double thickness and blindstitched on the back. The center back loop shall be tacked on. All other loops are to be sewn into the rocap at the top and dropped and tacked below the waistband seam. The opening shall be a minimum of 2 1/4".



## ATTACHMENT D

- \* **Bottoms:** All bottoms shall be plain with a minimum of 1 ¾" turnunder and finished with a blind stitch felling machine. Stitched through bottoms is not acceptable.

### Sizes and Measurements

#### Finished Dimensions

I-A	<b>Sizes:</b>	Short: 28-40
		Regular: 28-54
		Long: 32-48
		Xlong: 32-46
I-B	<b>Sizes:</b>	Petite: 2-14
		Regular: 2-30
		Tall: 4-24

## ATTACHMENT D

**C557      Trousers, Male, Green 16 Oz. 55/45 P/W Elastique**

**Specifications are identical for the following other components:**

**N554    Trousers, Male, Green 11 Oz. 55/45 P/W Tropical**  
**C555    Trousers, Male, Green 11 Oz. 55/45 P/W Tropical**  
**N556    Trousers, Male, Green 16 Oz. 55/45 P/W Elastique**  
**C562    Trousers, Male, Grey, 11 Oz. P/W Tropical**  
**C574    Trousers, Female, Green 11 Oz. 55/45 P/W Tropical**  
**N575    Trousers, Female, Green 11 Oz. 55/45 P/W Tropical**  
**C570    Trousers, Female, Green 16 Oz. 55/45 P/W Elastique**  
**N576    Trousers, Female, Green 16 Oz. 55/45 P/W Elastique**

**Sample Size:** All dimensions are based on Male size 36R and Female size 12R

### GENERAL DESCRIPTION

Plain Front with a slight flare at bottom. Quarter top front pockets, two back pockets, French fly with hook and eye closure, and two back darts. There shall be two darts on the front panel of the female's trousers and no darts on the front of the male's trousers.

**TYPE ITEMS:** \*-Male and Female      Type I—Male      Type II—Female

<b>CLASSIFICATION</b>		<b>NPS (M/F)</b>	<b>COE (M/F)</b>
*	All Trousers	*	*
A	Elastique Trousers	N556/N576	C557/C570
B	Tropical Trousers	N554/N575	C555/ C574/C562

### SALIENT CHARACTERISTICS

#### Components

- \*-A      **Basic Material:** Raeford Mills 16-ounce Forest Green 55% Dacron Polyester/45% Wool Elastique fabric.
- \*-B      **Basic Material:** Raeford Mills 11-ounce Forest Green 55% Dacron Polyester/45% Wool Tropical fabric.
- \*      **Linings:** The material used for pockets, waistband lining and fly lining shall be suitable quality black fabric for dress trousers.
- \*      **Thread:** All thread, except #8 cotton buttonhole gimp, shall be cotton covered polyester conforming to ticket numbers 50-3 ply and 70-2 ply of MIT-T-43548. The color shall match the self-material shade. Size 50-3 ply shall be used for all sewing operations except that 70-2 ply may be used for overedging operations.
- \*      **Button Holes:** Buttonholes shall be eyelet, square bar, gimp reinforced type.
- \*      **Buttons:** The buttons for hip pockets and French fly shall be flat 4-hole, 24 ligne polyester type in plain style, and in a shade similar to or slightly darker than the basic fabric. The buttons for the hip pocket shall be Melamine Potomac M3762, 4 hole, 24 ligne, Forest Green.
- \*      **Zipper:** A brass memory lock slider and zipper with a brass bottom stop at the base of the zipper chain shall be used.

## ATTACHMENT D

- \* **Labels:** See general reference and requirements sheet.

### General Instructions

- I-\* **Stitching:** Center back turnunder shall be no less than 2" to take care of any alterations and the seat seam shall be sewn on a double needle chain stitch (401) machine, having tandem needles with an offset of 1/32nd of an inch. The inseams and outseams, seam allowances shall be 1" wide and sewn with a single needle chain stitch (401) and pressed open inside. All other seams shall use lock stitch (301). All exposed raw edges shall be serged (503 or 504) to prevent raveling. 10-16 stitches per inch are required, except for 5 to 7 stitches per inch for blindstitching.
- II-\* **Stitching:** The seat seam shall be stitched with a tandem needle seat-seaming machine. There shall be a center back seam allowance of no less than 1 5/8" to take care of alterations. 10-16 stitches per inch are required, except for 5 to 7 stitches per inch for blindstitching.
- \* **Bartacks:** There shall be bartacks at all points of strain including base of fly curve, inside bottom edge of fly and all pocket openings. Front pocket openings shall be bartacked at bottom and at top beneath waistband. Each end of hip pockets shall be bartacked. Eye closure in waistband shall be bartacked. All bartacks shall be 3/8 to 1/2" in length.

### Detail Design Characteristics

- II-\* **Front Panel:** The trouser shall have a reinforced panel on each front. It shall be constructed of the same fabric as the pocketing. It shall extend from the waistband topstitch seam approximately 4". The back edge shall be folded and topstitched to the front edge of each front pocket bag. The front edge of each reinforced panel shall be stitched to the fly. The bottom edge of the bellyband shall be tightly serged so it shall not ravel.
- I-\* **Crotch and Fly:** The zipper stay is to be cut of matching specified trim and to be the exact size as the fly and to be serged together. The French fly is to be made of the same material as the trouser. The zipper to be not less than 1/2 inch under the opening. The fly lining is to have a tail covering inseam and crotch. Crotch is to be lined front and back, four quarter, with a double thickness of matching specified trim fabric. The fly shall also have a tab and button closure at the bottom of the waistband. The tab shall be made of basic material.
- II-\* **Crotch and Fly:** The right fly shall be the same fabric and color as the waistband curtain. The right fly lining shall be sewn to the left fly below the zipper. The right fly lining shall extend to within 1" of the inseams joining seam.
- II-\* **Darts:** There shall be one tapering dart over each hip pocket and one on each front panel. The purpose of the darts is to contour the garment to a true female fit. The front darts shall be approximately 3" long from the waistband. The hip pocket darts shall extend from the waistband to the top of the hip pocket.

## ATTACHMENT D

- I-\***      **Waistband:** The waistband shall be 2" wide and shall be closed with a crush proof hook and eye, the eye being bartacked for stability. The finished waistband curtain, 2 3/8" wide, shall be attached with a rocap machine. The waistband curtain shall be made of the specified trim and shall have 3 strand Snug-tex sewn into the waistband lining. Snug-tex sewn on to the top of the waistband lining shall not be authorized. Trousers shall have banrol waistband stabilizer sewn into the waistband on the front of the trousers from side seam to side seam. Trousers shall be made with a continuous closed waistband using the closed corner method. The waistband shall be set on and shall be stitched below the lower edge through the outer fabric and the waistband curtain.
- II-\***      **Waistband:** The waistband shall be 1 1/4" wide and shall be closed with a crushproof hook and eye, the eye being bartacked for stability. The waistband curtain shall be attached with a rocap machine. The curtain shall finish 1 1/2" wide and be interlined with a nonwoven. No banrol shall be used. The waistband shall be set on and stitched below the lower edge through the outer fabric and the waistband curtain. There shall be an elastic insert on each side of the trouser. It shall allow the trouser to expand a minimum of 1 1/2" on each side. The elastic shall be one inch wide. The elastic shall be secured on the inside of the waistband curtain on each end with a minimum 1" vertical stitch.
- I-\***      **Front Pockets--** Quarter top style with a deep facing of self cloth in order that pocketing does not show. Pocketing shall be made of the specified trim fabric and to be stitched, turned and topstitched. Merrowed edges shall not be acceptable. Pocket opening shall be a minimum of 6 1/2" and pocket depth 10 1/2" to top of slant. Facing shall be a minimum of 1 1/2".
- II-\***      **Front Pockets--** The front pocket opening shall be a minimum 6" and a minimum of 5 1/2" deep from the bottom of the opening. They shall be stitched, turned and restitched. The inside front pocket facing shall be a separate piece of self material finishing no less than 1 1/4" wide. The front pockets shall have straight bartacks.
- I-\***      **Back Pockets--** Two single welt slash pockets with flaps inserted into top - edge. Pocket to finish a minimum of 6 1/4" deep by 5 3/4" wide. Facings shall be minimum of 1" deep of self-material in the body side. Pocketing shall be top stitched. Pocketing shall extend up to and be caught in waistband seam to prevent sagging.
- II-\***      **Back Pockets--** The back pockets shall have a minimum opening of 5 1/2" wide and shall be a minimum of 6" deep on size 14 and up. On size 12 and down, the minimum opening shall be 5" wide and 6" deep. They shall be finished on the outside with an exposed top and bottom cord, with flaps inserted into the top edge. The top and bottom pocket beads shall be approximately 1/8" in width, interlined with pellon. Facings shall be minimum of 1" deep of self-material on the body side. Pocketing shall be stitched, turned and restitched. Pocketing shall extend up to and be caught in waistband seam to prevent sagging. The back pockets shall have straight bartacks.
- \***      **Hip Pocket Flap:** Flap shall be constructed of basic fabric and lined with the specified trim. It shall be constructed with a concealed button hole tab so that bottom closure is concealed. No stitching shall show on the outside of the flap. The flap shall be spade style with a single point. The flap shall measure 1 1/4" on the sides 2 1/4" at the point and the width of the pocket welt.
- I-\***      **Belt Loops:** There shall be 7 belt loops. Belt loops shall be lined with no stitching to show on the outside and shall be 2 1/4" high and 1" wide. All loops to be inserted into both the top and bottom waistband seams with the exception of the back center loop.
- II-\***      **Belt Loops:** There shall be a minimum of 5 belt loops on waist sizes 12 and down, and a minimum of 7 on all sizes over 14. Each loop is to be 1" wide, of double thickness and blindstitched on the back. The center back loop shall be tacked on. All other loops are to be sewn into the rocap at the top and dropped and tacked below the waistband seam. The opening shall be a minimum of 2 1/4".

## ATTACHMENT D

- \* **Bottoms:** All bottoms shall be plain with a minimum of 1 ¾" turnunder and finished with a blind stitch felling machine. Stitched through bottoms is not acceptable.

### Sizes and Measurements

#### Finished Dimensions

I-A	<b>Sizes:</b>	Short: 28-40
		Regular: 28-54
		Long: 32-48
		Xlong: 32-46
I-B	<b>Sizes:</b>	Petite: 2-14
		Regular: 2-30
		Tall: 4-24

## ATTACHMENT D

**C558 Trousers, Male, Green 8 Oz. 65/35 P/C Chetopa IV Twill**

**Specifications are identical for the following other components:**

**N559 Trousers, Male, Green 8 Oz. 65/35 P/C Chetopa IV Twill**

**C571 Trousers, Female, Green 8 Oz. 65/35 P/C Chetopa IV Twill**

**N577 Trousers, Female, Green 8 Oz. 65/35 P/C Chetopa IV Twill**

**Sample Size:** All dimensions are based on sizes, C558 and N559 - 36R, C57 and N577 - 12R

### GENERAL DESCRIPTION

Trousers shall have a plain front, quarter top front pockets, 2 back pockets, zipper fly, hook and eye closures, and two back darts. The female version has four darts and an elastic waistband for ease of fit.

**TYPE ITEMS:** \*-Male and Female      Type I—Male      Type II—Female

**CLASSIFICATION**      COE # (M/F)      NPS # (M/F)

*	<b>All Trousers</b>	*	*
	C558/C571		N559/N577

### SALIENT CHARACTERISTICS

#### Components

- \* **Basic Material:** The material shall be Graniteville Chetopa IV twill, 65% / 35% cotton, 8 oz. per square yard, Forest Green or equal.
- \* **Linings:** The lining used for pockets, waistband lining, and fly lining shall be 65% Polyester/35% Cotton or equal. Color shall be black or other dark shade that does not show through.
- \* **Thread:** The thread for all sewing operations shall be cotton covered polyester, or 100% spun polyester, dyed to match shade of self material, conforming to ticket number 50-2 or 3 tex and 70-2 or 3 tex. All lockstitch (301) shall use 50 tex, for the looper, (401) shall use 50 tex for the needle and 70 or 50 tex for the looper, overedging (503 and 504) shall use 70 tex, and safety stitching (515 and 516) shall use 50 tex for the needle thread and 70 tex for other threads.
- I-\* **Fly and Crotch:** Left fly to extend minimum of 3/8 inch beyond slide fastener tape to keep it concealed. Fly shall be bartacked at bottom of fly curve. Right fly lining to extend down to junction of side and seat seams. Right and left flies and zipper tape shall be bartacked together inside at bottom left corner.
- II-\* **Fly and Crotch:** The right fly shall be the same fabric and color as the waistband curtain. The right fly lining shall be sewn to the left fly below the zipper. The right fly lining shall extend to within 1" of the inseams joining seam.
- \* **Buttons:** The left back pocket button shall be: Melamine Potomac M3762, 4 hole, 22 ligne, Forest Green.
- I-\* **Zippers:** A non-corrosive, heavy weight brass zipper with slide fastener or equal shall be used. It shall have an automatic cam lock. Tape shall be a polyester/cotton blend, color to match self-material. Slide fastener to be sewn to each fly with a minimum of 2 rows of lockstitch.

## ATTACHMENT D

**II-\***      **Zippers:** The trousers shall be closed with a brass memory lock slider and zipper and have a brass bottom stop at the base of the zipper chain. A straight bartack shall be sewn through from the outside of the garment to the inside of the bottom of the fly. It shall be sewn through the zipper tape, the right and left fly and the right fly lining. The right and left fly shall be joined by an additional bartack located below the zipper stop on the inside of the trouser.

**\***            **Labels:** See general reference and requirements sheet.

### General Instructions

**I-\***            **Stitching:** Waistband, fly, facing and slide fastener stitching shall be lockstitch (301). Seat seams shall be stitched with two rows of tandem needle chains (401) stitching. Inseams and outseams shall be chain stitched (401) and seams pressed open. Bottom hem shall be turned inside 1-3/8 inches and blind stitched. Minimum stitches per inch shall be 8 except blind stitching which shall be a minimum of 5. All exposed inside seams shall be serged.

**II-\***            **Stitching:** The entire trouser is to be seamed with polyester core or 100% polyester spun thread. The seat seam shall be stitched with a tandem needle seat seaming machine. There shall be a center back seam allowance of no less than 2 1/2" to take care of alterations.

**\***            **Fit:** Trousers shall be full waisted and moderately trim fitting in seat, thigh and knee.

### Detail Design Characteristics

**I-\***            **Waistband:** The waistband shall be 2 inches wide and shall be closed with a crush proof hook and eye, the eye being bartacked for stability. This finished waistband curtain, 2-1/2 inches wide, shall be attached with a rocap machine. Trousers shall have banrol waistband stabilizer sewn into the waistband on the front of the trousers from side seam to side seam. Trousers shall be made with a continuous closed waistband using the closed corner method. The waistband shall be set on and shall be stitched below the lower edge through the outer fabric and the waistband curtain.

**II-\***            **Waistband:** The waistband shall be 1 1/4" wide and shall be closed with a crushproof hook and eye, the eye being bartacked for stability. The waistband curtain shall be attached with a rocap machine. The curtain shall finish 1 1/2" wide and be interlined with a nonwoven. The waistband shall be set on and stitched below the lower edge through the outer fabric and the waistband curtain. There shall be an elastic insert on each side of the trouser. It shall allow the trouser to expand a minimum of 1 1/2" on each side. The elastic shall be one inch wide. The elastic shall be secured on the inside of the waistband curtain on each end with a minimum 1" vertical stitch.

**II-\***            **Front Panel:** The trouser shall have a reinforced panel on each front. It shall be constructed of the same fabric as the pocketing. It shall extend from the waistband topstitch seam approximately 4 inches. The back edge shall be folded and topstitched to the front edge of each front pocket bag. The front edge of each reinforced panel shall be stitched to the fly. The bottom edge of the bellyband shall be tightly serged so it shall not ravel.

**I-\***            **Darts:** One dart shall extend from each hip pocket to the waistband seam.

**II-\***            **Darts:** There shall be one tapering dart over each hip pocket and one on each front panel. The purpose of the darts is to contour the garment to a true female fit. The front darts shall be approximately 3 inches long from the waistband. The hip pocket darts shall extend from the waistband to the top of the hip pocket.

## ATTACHMENT D

- I-\***      **Front Pockets:** The front pockets shall be quarter top type having a minimum opening of 6" and shall be 6" deep from bottom of opening. Facing shall be minimum of 1 5/8". The front pockets shall be stitched, turned and restitched. Ends of pocket opening shall be bartacked.
- II-\***      **Front Pockets:** The front pocket opening shall be a minimum 6" and a minimum of 5 1/2" deep from the bottom of the opening. They shall be stitched, turned and restitched. The inside front pocket facing shall be a separate piece of self-material finishing no less than 1 1/4" wide.
- I-\***      **Back Pockets:** Reece double welt slash style, 5-1/2 inches at opening, 6 inches deep. Ends of opening shall be bartacked. Facing shall be a minimum of 1 inch deep of self-material on the body side. Pockets to be constructed of lining fabric and shall continue into waistband seam to prevent sagging. Left pocket to have tab and button closure. Pockets shall be folded and top stitched.
- II-\***      **Back Pockets:** The back pockets shall have a minimum opening of 5 1/2" wide and shall be 6" deep on size 14 and up. On size 12 and down, the minimum opening shall be 5" wide and 6" deep. They shall be made with an automatic PW machine finished on the outside with an exposed top and bottom cord. The top and bottom pocket beads shall be approximately 1/8" in width and interlined. The left pocket shall have a tab to button. The front and back pockets shall have straight bartacks.
- I-\***      **Belt Loops:** Seven belt loops to be caught in upper and lower waistband seams except back center loop which shall be bartacked. Belt loops to be 3/4" wide and must accommodate a 2" belt.
- II-\***      **Belt Loops:** There shall be a minimum of 5 belt loops on waist sizes 12 and down, and a minimum of 7 on all sizes over 14. Each loop is to be 3/4" wide and shall accommodate a 2" belt.
- \***      **Bottoms:** Bottoms shall be hemmed with a blindstitch and have a minimum of 1 3/4" turned up.

### Sizes and Measurements

#### Finished Dimensions

- \***      **Sizes:** Male:    Short: 28-40  
                              Regular: 28-56  
                              Long: 31-56  
                              X Long: 30-46
- Female    Petite: 4-16  
                              Regular: 2-30  
                              Tall: 6-28



## ATTACHMENT D

### C560 Trousers, Male, Green Gore-Tex, Lined Rain/Wind

Specifications are identical for the following other components:

F553 Trousers, Male, Brown Gore-Tex, Lined Rain/Wind

N561 Trousers, Male, Green Gore-Tex, Lined Rain/Wind

F573 Trousers, Female, Brown Gore-Tex, Lined Rain/Wind

C578 Trousers, Female, Green Gore-Tex, Lined Rain/Wind

N579 Trousers, Female, Green Gore-Tex, Lined Rain/Wind

**Sample Size:** All dimensions are based on sizes F553, C560, N561, C578, N579 - Large, F573 - Medium

### GENERAL DESCRIPTION

Fully lined Gore-Tex pants or equal featuring full length side zippers with inside weather flaps with elastic waist band and hook and pile tape side waistband closures.

**TYPE ITEMS:** \*-Male and Female      Type I—Male      Type II—Female

CLASSIFICATION		COE (M/F)	NPS (M/F)
*	All Trousers	*	*
A	Green	C560/C578	N561/N579 FWS (M/F)
B	Brown		F553/F573

### SALIENT CHARACTERISTICS

#### Components

- \*-A      **Basic Material:** The material shall be taslan nylon bonded to Gore-Tex film, Forest Green.
- \*-B      **Basic Material:** The material shall be taslan nylon bonded to Gore-Tex film, dark brown.
- \*      **Thread:** All thread shall be minimum size 60/36.
- \*      **Seams:** The crotch and inseams shall be full felled (seam type LS c-2) ¼" gauge. All stitching shall be stitch type 301. All closing seams shall be hot air heat sealed with Gore-Tex sealing tape on the inside of the pants. Sealed seams and stitching shall show no leakage.
- \*      **Zippers:** The side zippers shall be plastic scoop type, size 5 or equal. The zippers shall have two single pull, long tab sliders mouth-to-mouth. The tapes shall be 5/8" wide.
- \*      **Labels:** See general reference and requirements sheet.

#### Detail Design Characteristics

- \*      **Lining:** The pants shall be fully lined.
- I-A      **Waistband:** The front and back waistbands and waistband linings shall be 2" wide. A 1 ¾" wide elastic band shall be sewn between the waistband and lining, extending to the waistband tabs on the front, and between the inner edges of the pile tape. The band shall be sewn down with one center row of stitching and stitched to the bottom of the waistband.

## ATTACHMENT D

The front waistband shall be 15 ½" long relaxed. A 1 ½" wide by 2" long piece of hook tape shall be sewn to the inside of each waistband tab centered with one end of the tape ¼" from the end of the waistband top.

The back waistband shall be 15 ½" long relaxed. A 1 ½" wide by 2" long piece of loop tape shall be sewn to the outside of each waistband end, centered with the end of the tape ¼" from the end of the waistband.

The waistband shall have four snapped belt loops equally spaced for a duty belt.

- I-B      **Waistband:**** The front and back waistbands and waistband linings shall be 2" wide and interlined with a compatible non-woven material. The front waistband shall be 25" long and edge stitched 1/8" gauge. The waistband and lining shall be basic material, one-piece construction. A 1 ½" wide by 4" long piece of pile tape shall be sewn to the inside of each waistband end, centered with the one end of the tape even with the end of the waistband.

The back waistband shall be 21" long and edge stitched 1/8" gauge. A 1 ½" wide by 3" long piece of hook tape shall be sewn to the outside of each waistband end, centered with the end of the tape ¼" from the end of the waistband. A 1 ¾" wide elastic band shall be sewn between the waistband and lining and shall extend between the inner edges of the hook tape and be sewn down and shirred with 3 rows of stitching, ½" gauge.

- II-A      **Waistband:**** The front and back waistbands and waistband linings shall be 2" wide. A 1 ½" wide elastic band shall be sewn between the waistband and lining, extending to the waistband tabs on the front, and between the inner edges of the pile tape. The band shall be sewn down with one center row of stitching and stitched to the bottom of the waistband.

The front waistband shall be 12 ¼" long relaxed. A 1 ½" wide by 2" long piece of hook tape shall be sewn to the inside of each waistband tab centered with one end of the tape ¼" from the end of the waistband top.

The back waistband shall be 15 ½" long relaxed. A 1 ½" wide by 2" long piece of loop tape shall be sewn to the outside of each waistband end, centered with the end of the tape ¼" from the end of the waistband.

The waistband shall have four snapped belt loops equally spaced for a duty belt.

- II-B      **Waistband:**** The front and back waistbands and waistband linings shall be 2" wide and interlined with a compatible non-woven material. The front waistband shall be 20 ½" long and edge stitched 1/8" gauge. The waistband and lining shall be basic material, one-piece construction. A 1 ½" wide by 4" long piece of pile tape shall be sewn to the inside of each waistband end, centered with the one end of the tape even with the end of the waistband.

The back waistband shall be 18" long and edge stitched 1/8" gauge. A 1 ½" wide by 3" long piece of hook tape shall be sewn to the outside of each waistband end, centered with the end of the tape ¼" from the end of the waistband. A 1 ¾" wide elastic band shall be sewn between the waistband and lining and shall extend between the inner edges of the hook tape and be sewn down and shirred with 3 rows of stitching, ½" gauge.

## ATTACHMENT D

- I-A Outseam Opening:** Each outseam shall close with a full length zipper. The zipper shall start at the bottom of the waistband and end less than 1" from the pant bottom edge. A full length under flap and lining constructed of basic material shall be 1 ½" wide and caught with the zipper tape between the rear panel and the lining panel. A 2" long basic material tab shall be 1 ½" wide on the outside edge and 2 ½" wide where it is attached with the zipper tape between the front panel and lining panel. A 24 ligne female snap shall be attached in the bottom outside corner ½" from each edge. A male snap shall be attached on the back panel ¾" from the outseam and ½" from the bottom edge of the pants. The outseam shall be 43 ¼" long between the waistband top and the bottom edge of the pant leg along the zipper.
- I-B Outseam Opening:** Each outseam shall close with a full length zipper. The zipper shall start at the bottom of the waistband and end less than 1" from the pant bottom edge. A full length under flap and lining constructed of basic material shall be 1 ½" wide and caught with the zipper tape between the rear panel and the lining panel. A 2" long basic material tab shall be 1 ½" wide on the outside edge and 2 ½" wide where it is attached with the zipper tape between the front panel and lining panel. A 24 ligne female snap shall be attached in the bottom outside corner ½" from each edge. A male snap shall be attached on the back panel ¾" from the outseam and ½" from the bottom edge of the pants. The outseam shall be 44" long between the waistband top and the bottom edge of the pant leg along the zipper.
- II-A Outseam Opening:** Each outseam shall close with a full length zipper. The zipper shall start at the bottom of the waistband and end less than 1" from the pant bottom edge. A full length under flap and lining constructed of basic material shall be 1 ½" wide and caught with the zipper tape between the rear panel and the lining panel. A 2" long basic material tab shall be 1 ½" wide on the outside edge and 2 ½" wide where it is attached with the zipper tape between the front panel and lining panel. A 24 ligne female snap shall be attached in the bottom outside corner ½" from each edge. A male snap shall be attached on the back panel ¾" from the outseam and ½" from the bottom edge of the pants. The outseam shall be 42" long between the waistband top and the bottom edge of the pant leg along the zipper.
- II-B Outseam Opening:** Each outseam shall close with a full length zipper. The zipper shall start at the bottom of the waistband and end less than 1" from the pant bottom edge. A full length under flap and lining constructed of basic material shall be 1 ½" wide and caught with the zipper tape between the rear panel and the lining panel. A 2" long basic material tab shall be 1 ½" wide on the outside edge and 2 ½" wide where it is attached with the zipper tape between the front panel and lining panel. A 24 ligne female snap shall be attached in the bottom outside corner ½" from each edge. A male snap shall be attached on the back panel ¾" from the outseam and ½" from the bottom edge of the pants. The outseam shall be 42" long between the waistband top and the bottom edge of the pant leg along the zipper.
- I-\* Reinforcement Patch:** The patch shall reinforce the seat area and shall be constructed from reinforcement fabric. The sides shall end 1 ½" from inside edges of weather flaps and shall extend down 21 ½". The top edge shall be caught in the waistband seam and sides shall be folded under and topstitched 1/8" gauge to the weather flaps. The bottom edge of the patch shall be joined to the lining with seam allowances not showing. The urethane coating shall face to the outside of the pants.
- II-A Reinforcement Patch:** The patch shall reinforce the seat area and shall be constructed from reinforcement fabric. The sides shall end 1 ½" from inside edges of weather flaps and shall extend down 19 ¼". The top edge shall be caught in the waistband seam and sides shall be folded under and topstitched 1/8" gauge to the weather flaps. The bottom edge of the patch shall be joined to the lining with seam allowances not showing. The urethane coating shall face to the outside of the pants.

## ATTACHMENT D

**II-B Reinforcement Patch:** The patch shall reinforce the seat area and shall be constructed from reinforcement fabric. The sides shall end 1 ½” from inside edges of weather flaps and shall extend down 19 ½”. The top edge shall be caught in the waistband seam and sides shall be folded under and topstitched 1/8” gauge to the weather flaps. The bottom edge of the patch shall be joined to the lining with seam allowances not showing. The urethane coating shall face to the outside of the pants.

### Sizes and Measurements

\* **Finished Dimensions**

\* **Sizes:** Male - Regular: S-XXL  
Male - Long: M-XXL  
Female - S-XL

## ATTACHMENT D

**C562 Trousers, Male, Grey, 11 Oz., P/W Tropical**

**Specifications are identical for the following other components:**

**N554 Trousers, Male, Green 11 Oz. 55/45 P/W Tropical**  
**C555 Trousers, Male, Green 11 Oz. 55/45 P/W Tropical**  
**N556 Trousers, Male, Green 16 Oz. 55/45 P/W Elastique**  
**C557 Trousers, Male, Green 16 Oz. 55/45 P/W Elastique**  
**C574 Trousers, Female, Green 11 Oz. 55/45 P/W Tropical**  
**N575 Trousers, Female, Green 11 Oz. 55/45 P/W Tropical**  
**C570 Trousers, Female, Green 16 Oz. 55/45 P/W Elastique**  
**N576 Trousers, Female, Green 16 Oz. 55/45 P/W Elastique**

**Sample Size:** All dimensions are based on Male size 36R and Female size 12R

### GENERAL DESCRIPTION

Plain Front with a slight flare at bottom. Quarter top front pockets, two back pockets, French fly with hook and eye closure, and two back darts. There shall be two darts on the front panel of the female's trousers and no darts on the front of the male's trousers.

**TYPE ITEMS:** \*-Male and Female      Type I—Male      Type II—Female

<b>CLASSIFICATION</b>		<b>NPS (M/F)</b>	<b>COE (M/F)</b>
*	All Trousers	*	*
A	Elastique Trousers	N556/N576	C557/C570
B	Tropical Trousers	N554/N575	C555/ C574/C562

### SALIENT CHARACTERISTICS

#### Components

- \*-A      **Basic Material:** Raeford Mills 16-ounce Forest Green 55% Dacron Polyester/45% Wool Elastique fabric.
- \*-B      **Basic Material:** Raeford Mills 11-ounce Forest Green 55% Dacron Polyester/45% Wool Tropical fabric.
- \*      **Linings:** The material used for pockets, waistband lining and fly lining shall be suitable quality black fabric for dress trousers.
- \*      **Thread:** All thread, except #8 cotton buttonhole gimp, shall be cotton covered polyester conforming to ticket numbers 50-3 ply and 70-2 ply of MIT-T-43548. The color shall match the self-material shade. Size 50-3 ply shall be used for all sewing operations except that 70-2 ply may be used for overedging operations.
- \*      **Button Holes:** Buttonholes shall be eyelet, square bar, gimp reinforced type.
- \*      **Buttons:** The buttons for hip pockets and French fly shall be flat 4-hole, 24 ligne polyester type in plain style, and in a shade similar to or slightly darker than the basic fabric. The buttons for the hip pocket shall be Melamine Potomac M3762, 4 hole, 24 ligne, Forest Green.

## ATTACHMENT D

- \* **Zipper:** A brass memory lock slider and zipper with a brass bottom stop at the base of the zipper chain shall be used.
- \* **Labels:** See general reference and requirements sheet.

### General Instructions

- I-\* **Stitching:** Center back turnunder shall be no less than 2" to take care of any alterations and the seat seam shall be sewn on a double needle chain stitch (401) machine, having tandem needles with an offset of 1/32nd of an inch. The inseams and outseams, seam allowances shall be 1" wide and sewn with a single needle chain stitch (401) and pressed open inside. All other seams shall use lock stitch (301). All exposed raw edges shall be serged (503 or 504) to prevent raveling. 10-16 stitches per inch are required, except for 5 to 7 stitches per inch for blindstitching.
- II-\* **Stitching:** The seat seam shall be stitched with a tandem needle seat-seaming machine. There shall be a center back seam allowance of no less than 1 5/8" to take care of alterations. 10-16 stitches per inch are required, except for 5 to 7 stitches per inch for blindstitching.
- \* **Bartacks:** There shall be bartacks at all points of strain including base of fly curve, inside bottom edge of fly and all pocket openings. Front pocket openings shall be bartacked at bottom and at top beneath waistband. Each end of hip pockets shall be bartacked. Eye closure in waistband shall be bartacked. All bartacks shall be 3/8 to 1/2" in length.

### Detail Design Characteristics

- II-\* **Front Panel:** The trouser shall have a reinforced panel on each front. It shall be constructed of the same fabric as the pocketing. It shall extend from the waistband topstitch seam approximately 4". The back edge shall be folded and topstitched to the front edge of each front pocket bag. The front edge of each reinforced panel shall be stitched to the fly. The bottom edge of the bellyband shall be tightly serged so it shall not ravel.
- I-\* **Crotch and Fly:** The zipper stay is to be cut of matching specified trim and to be the exact size as the fly and to be serged together. The French fly is to be made of the same material as the trouser. The zipper to be not less than 1/2 inch under the opening. The fly lining is to have a tail covering inseam and crotch. Crotch is to be lined front and back, four quarter, with a double thickness of matching specified trim fabric. The fly shall also have a tab and button closure at the bottom of the waistband. The tab shall be made of basic material.
- II-\* **Crotch and Fly:** The right fly shall be the same fabric and color as the waistband curtain. The right fly lining shall be sewn to the left fly below the zipper. The right fly lining shall extend to within 1" of the inseams joining seam.
- II-\* **Darts:** There shall be one tapering dart over each hip pocket and one on each front panel. The purpose of the darts is to contour the garment to a true female fit. The front darts shall be approximately 3" long from the waistband. The hip pocket darts shall extend from the waistband to the top of the hip pocket.

## ATTACHMENT D

- I-\***      **Waistband:** The waistband shall be 2" wide and shall be closed with a crush proof hook and eye, the eye being bartacked for stability. The finished waistband curtain, 2 3/8" wide, shall be attached with a rocap machine. The waistband curtain shall be made of the specified trim and shall have 3 strand Snug-tex sewn into the waistband lining. Snug-tex sewn on to the top of the waistband lining shall not be authorized. Trousers shall have banrol waistband stabilizer sewn into the waistband on the front of the trousers from side seam to side seam. Trousers shall be made with a continuous closed waistband using the closed corner method. The waistband shall be set on and shall be stitched below the lower edge through the outer fabric and the waistband curtain.
- II-\***      **Waistband:** The waistband shall be 1 1/4" wide and shall be closed with a crushproof hook and eye, the eye being bartacked for stability. The waistband curtain shall be attached with a rocap machine. The curtain shall finish 1 1/2" wide and be interlined with a nonwoven. No banrol shall be used. The waistband shall be set on and stitched below the lower edge through the outer fabric and the waistband curtain. There shall be an elastic insert on each side of the trouser. It shall allow the trouser to expand a minimum of 1 1/2" on each side. The elastic shall be one inch wide. The elastic shall be secured on the inside of the waistband curtain on each end with a minimum 1" vertical stitch.
- I-\***      **Front Pockets--** Quarter top style with a deep facing of self cloth in order that pocketing does not show. Pocketing shall be made of the specified trim fabric and to be stitched, turned and topstitched. Merrowed edges shall not be acceptable. Pocket opening shall be a minimum of 6 1/2" and pocket depth 10 1/2" to top of slant. Facing shall be a minimum of 1 1/2".
- II-\***      **Front Pockets--** The front pocket opening shall be a minimum 6" and a minimum of 5 1/2" deep from the bottom of the opening. They shall be stitched, turned and restitched. The inside front pocket facing shall be a separate piece of self material finishing no less than 1 1/4" wide. The front pockets shall have straight bartacks.
- I-\***      **Back Pockets--** Two single welt slash pockets with flaps inserted into top - edge. Pocket to finish a minimum of 6 1/4" deep by 5 3/4" wide. Facings shall be minimum of 1" deep of self-material in the body side. Pocketing shall be top stitched. Pocketing shall extend up to and be caught in waistband seam to prevent sagging.
- II-\***      **Back Pockets--** The back pockets shall have a minimum opening of 5 1/2" wide and shall be a minimum of 6" deep on size 14 and up. On size 12 and down, the minimum opening shall be 5" wide and 6" deep. They shall be finished on the outside with an exposed top and bottom cord, with flaps inserted into the top edge. The top and bottom pocket beads shall be approximately 1/8" in width, interlined with pellow. Facings shall be minimum of 1" deep of self-material on the body side. Pocketing shall be stitched, turned and restitched. Pocketing shall extend up to and be caught in waistband seam to prevent sagging. The back pockets shall have straight bartacks.
- \***      **Hip Pocket Flap:** Flap shall be constructed of basic fabric and lined with the specified trim. It shall be constructed with a concealed button hole tab so that bottom closure is concealed. No stitching shall show on the outside of the flap. The flap shall be spade style with a single point. The flap shall measure 1 1/4" on the sides 2 1/4" at the point and the width of the pocket welt.
- I-\***      **Belt Loops:** There shall be 7 belt loops. Belt loops shall be lined with no stitching to show on the outside and shall be 2 1/4" high and 1" wide. All loops to be inserted into both the top and bottom waistband seams with the exception of the back center loop.

## ATTACHMENT D

**II-\***      **Belt Loops:** There shall be a minimum of 5 belt loops on waist sizes 12 and down, and a minimum of 7 on all sizes over 14. Each loop is to be 1" wide, of double thickness and blindstitched on the back. The center back loop shall be tacked on. All other loops are to be sewn into the rocap at the top and dropped and tacked below the waistband seam. The opening shall be a minimum of 2 ¼".

**\***            **Bottoms:** All bottoms shall be plain with a minimum of 1 ¾" turnunder and finished with a blind stitch felling machine. Stitched through bottoms is not acceptable.

### Sizes and Measurements

#### Finished Dimensions

**I-A**        **Sizes:**      Short: 28-40  
                         Regular: 28-54  
                         Long: 32-48  
                         Xlong: 32-46

**I-B**        **Sizes:**      Petite: 2-14  
                         Regular: 2-30  
                         Tall: 4-24



## ATTACHMENT D

### **C564 Trousers, Maternity, Green 11 Oz. 55/45 P/W, Tropical**

**Specifications are identical for the following other components:**

### **N565 Trousers, Maternity, Green 11 Oz. 55/45 P/W, Tropical**

#### **GENERAL DESCRIPTION**

Basic one-piece front with two front quarter-top style pockets and an adjustable buttoned waistband which shall expand for fit and comfort.

**TYPE ITEMS:** \*- Female

#### **CLASSIFICATION**

\* All Trousers

#### **SALIENT CHARACTERISTICS**

##### **Components**

- \* **Basic Material:** The material shall be Raeford Forest Green 55% Polyester/45% Wool, 11-ounce Tropical.
- \* **Pockets:** The front pocket openings shall be a minimum of 6" and shall be 7" deep from the bottom of the opening. The pockets shall be safety stitched around the outer edge and the inner opening edges shall be bound. The inside front pocket facing shall be a separate piece of self-material finishing no less than 1 ¼" wide. The front pockets shall have straight bar tacks.
- \* **Waistband:** The fold-over waistband shall finish 1 ¼" wide and be elasticized both front and back. The front waistband shall have a buttonhole on each end that matches to either of two buttons placed on the waistband above each pocket bag. The two buttons shall allow an additional 6" adjustment in waist size.
- \* **Seaming:** The entire trouser shall be seamed with polyester core thread.

##### **Sizes and Measurements**

##### **Finished Dimensions**

- \* **Sizes:** XS-XL (Regular)

## ATTACHMENT D

### C570 Trousers, Female, Green 16 Oz. 55/45 P/W Elastique

Specifications are identical for the following other components:

N554 Trousers, Male, Green 11 Oz. 55/45 P/W Tropical  
C555 Trousers, Male, Green 11 Oz. 55/45 P/W Tropical  
N556 Trousers, Male, Green 16 Oz. 55/45 P/W Elastique  
C557 Trousers, Male, Green 16 Oz. 55/45 P/W Elastique  
C562 Trousers, Male, Grey, 11 Oz. P/W Tropical  
C574 Trousers, Female, Green 11 Oz. 55/45 P/W Tropical  
N575 Trousers, Female, Green 11 Oz. 55/45 P/W Tropical  
N576 Trousers, Female, Green 16 Oz. 55/45 P/W Elastique

**Sample Size:** All dimensions are based on Male size 36R and Female size 12R

### GENERAL DESCRIPTION

Plain Front with a slight flare at bottom. Quarter top front pockets, two back pockets, French fly with hook and eye closure, and two back darts. There shall be two darts on the front panel of the female's trousers and no darts on the front of the male's trousers.

**TYPE ITEMS:** \*-Male and Female      Type I—Male      Type II—Female

CLASSIFICATION	NPS (M/F)	COE (M/F)
* All Trousers	*	*
A Elastique Trousers	N556/N576	C557/C570
B Tropical Trousers	N554/N575	C555/ C574/C562

### SALIENT CHARACTERISTICS

#### Components

- \*-A **Basic Material:** Raeford Mills 16-ounce Forest Green 55% Dacron Polyester/45% Wool Elastique fabric.
- \*-B **Basic Material:** Raeford Mills 11-ounce Forest Green 55% Dacron Polyester/45% Wool Tropical fabric.
- \* **Linings:** The material used for pockets, waistband lining and fly lining shall be suitable quality black fabric for dress trousers.
- \* **Thread:** All thread, except #8 cotton buttonhole gimp, shall be cotton covered polyester conforming to ticket numbers 50-3 ply and 70-2 ply of MIT-T-43548. The color shall match the self-material shade. Size 50-3 ply shall be used for all sewing operations except that 70-2 ply may be used for overedging operations.
- \* **Button Holes:** Buttonholes shall be eyelet, square bar, gimp reinforced type.
- \* **Buttons:** The buttons for hip pockets and French fly shall be flat 4-hole, 24 ligne polyester type in plain style, and in a shade similar to or slightly darker than the basic fabric. The buttons for the hip pocket shall be Melamine Potomac M3762, 4 hole, 24 ligne, Forest Green.
- \* **Zipper:** A brass memory lock slider and zipper with a brass bottom stop at the base of the zipper chain shall be used.

## ATTACHMENT D

- \* **Labels:** See general reference and requirements sheet.

### General Instructions

- I-\* **Stitching:** Center back turnunder shall be no less than 2" to take care of any alterations and the seat seam shall be sewn on a double needle chain stitch (401) machine, having tandem needles with an offset of 1/32nd of an inch. The inseams and outseams, seam allowances shall be 1" wide and sewn with a single needle chain stitch (401) and pressed open inside. All other seams shall use lock stitch (301). All exposed raw edges shall be serged (503 or 504) to prevent raveling. 10-16 stitches per inch are required, except for 5 to 7 stitches per inch for blindstitching.
- II-\* **Stitching:** The seat seam shall be stitched with a tandem needle seat-seaming machine. There shall be a center back seam allowance of no less than 1 5/8" to take care of alterations. 10-16 stitches per inch are required, except for 5 to 7 stitches per inch for blindstitching.
- \* **Bartacks:** There shall be bartacks at all points of strain including base of fly curve, inside bottom edge of fly and all pocket openings. Front pocket openings shall be bartacked at bottom and at top beneath waistband. Each end of hip pockets shall be bartacked. Eye closure in waistband shall be bartacked. All bartacks shall be 3/8 to 1/2" in length.

### Detail Design Characteristics

- II-\* **Front Panel:** The trouser shall have a reinforced panel on each front. It shall be constructed of the same fabric as the pocketing. It shall extend from the waistband topstitch seam approximately 4". The back edge shall be folded and topstitched to the front edge of each front pocket bag. The front edge of each reinforced panel shall be stitched to the fly. The bottom edge of the bellyband shall be tightly serged so it shall not ravel.
- I-\* **Crotch and Fly:** The zipper stay is to be cut of matching specified trim and to be the exact size as the fly and to be serged together. The French fly is to be made of the same material as the trouser. The zipper to be not less than 1/2 inch under the opening. The fly lining is to have a tail covering inseam and crotch. Crotch is to be lined front and back, four quarter, with a double thickness of matching specified trim fabric. The fly shall also have a tab and button closure at the bottom of the waistband. The tab shall be made of basic material.
- II-\* **Crotch and Fly:** The right fly shall be the same fabric and color as the waistband curtain. The right fly lining shall be sewn to the left fly below the zipper. The right fly lining shall extend to within 1" of the inseams joining seam.
- II-\* **Darts:** There shall be one tapering dart over each hip pocket and one on each front panel. The purpose of the darts is to contour the garment to a true female fit. The front darts shall be approximately 3" long from the waistband. The hip pocket darts shall extend from the waistband to the top of the hip pocket.

## ATTACHMENT D

- I-\***      **Waistband:** The waistband shall be 2" wide and shall be closed with a crush proof hook and eye, the eye being bartacked for stability. The finished waistband curtain, 2 3/8" wide, shall be attached with a rocap machine. The waistband curtain shall be made of the specified trim and shall have 3 strand Snug-tex sewn into the waistband lining. Snug-tex sewn on to the top of the waistband lining shall not be authorized. Trousers shall have banrol waistband stabilizer sewn into the waistband on the front of the trousers from side seam to side seam. Trousers shall be made with a continuous closed waistband using the closed corner method. The waistband shall be set on and shall be stitched below the lower edge through the outer fabric and the waistband curtain.
- II-\***      **Waistband:** The waistband shall be 1 1/4" wide and shall be closed with a crushproof hook and eye, the eye being bartacked for stability. The waistband curtain shall be attached with a rocap machine. The curtain shall finish 1 1/2" wide and be interlined with a nonwoven. No banrol shall be used. The waistband shall be set on and stitched below the lower edge through the outer fabric and the waistband curtain. There shall be an elastic insert on each side of the trouser. It shall allow the trouser to expand a minimum of 1 1/2" on each side. The elastic shall be one inch wide. The elastic shall be secured on the inside of the waistband curtain on each end with a minimum 1" vertical stitch.
- I-\***      **Front Pockets--** Quarter top style with a deep facing of self cloth in order that pocketing does not show. Pocketing shall be made of the specified trim fabric and to be stitched, turned and topstitched. Merrowed edges shall not be acceptable. Pocket opening shall be a minimum of 6 1/2" and pocket depth 10 1/2" to top of slant. Facing shall be a minimum of 1 1/2".
- II-\***      **Front Pockets--** The front pocket opening shall be a minimum 6" and a minimum of 5 1/2" deep from the bottom of the opening. They shall be stitched, turned and restitched. The inside front pocket facing shall be a separate piece of self material finishing no less than 1 1/4" wide. The front pockets shall have straight bartacks.
- I-\***      **Back Pockets--** Two single welt slash pockets with flaps inserted into top - edge. Pocket to finish a minimum of 6 1/4" deep by 5 3/4" wide. Facings shall be minimum of 1" deep of self-material in the body side. Pocketing shall be top stitched. Pocketing shall extend up to and be caught in waistband seam to prevent sagging.
- II-\***      **Back Pockets--** The back pockets shall have a minimum opening of 5 1/2" wide and shall be a minimum of 6" deep on size 14 and up. On size 12 and down, the minimum opening shall be 5" wide and 6" deep. They shall be finished on the outside with an exposed top and bottom cord, with flaps inserted into the top edge. The top and bottom pocket beads shall be approximately 1/8" in width, interlined with pellon. Facings shall be minimum of 1" deep of self-material on the body side. Pocketing shall be stitched, turned and restitched. Pocketing shall extend up to and be caught in waistband seam to prevent sagging. The back pockets shall have straight bartacks.
- \***      **Hip Pocket Flap:** Flap shall be constructed of basic fabric and lined with the specified trim. It shall be constructed with a concealed button hole tab so that bottom closure is concealed. No stitching shall show on the outside of the flap. The flap shall be spade style with a single point. The flap shall measure 1 1/4" on the sides 2 1/4" at the point and the width of the pocket welt.
- I-\***      **Belt Loops:** There shall be 7 belt loops. Belt loops shall be lined with no stitching to show on the outside and shall be 2 1/4" high and 1" wide. All loops to be inserted into both the top and bottom waistband seams with the exception of the back center loop.
- II-\***      **Belt Loops:** There shall be a minimum of 5 belt loops on waist sizes 12 and down, and a minimum of 7 on all sizes over 14. Each loop is to be 1" wide, of double thickness and blindstitched on the back. The center back loop shall be tacked on. All other loops are to be sewn into the rocap at the top and dropped and tacked below the waistband seam. The opening shall be a minimum of 2 1/4".

## ATTACHMENT D

- \* **Bottoms:** All bottoms shall be plain with a minimum of 1 ¾" turnunder and finished with a blind stitch felling machine. Stitched through bottoms is not acceptable.

### Sizes and Measurements

#### Finished Dimensions

I-A	<b>Sizes:</b>	Short: 28-40
		Regular: 28-54
		Long: 32-48
		Xlong: 32-46
I-B	<b>Sizes:</b>	Petite: 2-14
		Regular: 2-30
		Tall: 4-24

## ATTACHMENT D

**C571 Trousers, Female, Green 8 Oz. 65/35 P/C Chetopa IV Twill**

**Specifications are identical for the following other components:**

**C558 Trousers, Male, Green 8 Oz. 65/35 P/C Chetopa IV Twill**

**N559 Trousers, Male, Green 8 Oz. 65/35 P/C Chetopa IV Twill**

**N577 Trousers, Female, Green 8 Oz. 65/35 P/C Chetopa IV Twill**

**Sample Size:** All dimensions are based on sizes, C558 and N559 - 36R, C571 and N577 - 12R

### GENERAL DESCRIPTION

Trousers shall have a plain front, quarter top front pockets, 2 back pockets, zipper fly, hook and eye closures, and two back darts. The female version has four darts and an elastic waistband for ease of fit.

**TYPE ITEMS:** \*-Male and Female      Type I—Male      Type II—Female

**CLASSIFICATION**      COE # (M/F)      NPS # (M/F)

*	<b>All Trousers</b>	*	*
	C558/C571		N559/N577

### SALIENT CHARACTERISTICS

#### Components

- \* **Basic Material:** The material shall be Graniteville Chetopa IV twill, 65% / 35% cotton, 8 oz. per square yard, Forest Green or equal.
- \* **Linings:** The lining used for pockets, waistband lining, and fly lining shall be 65% Polyester/35% Cotton or equal. Color shall be black or other dark shade that does not show through.
- \* **Thread:** The thread for all sewing operations shall be cotton covered polyester, or 100% spun polyester, dyed to match shade of self material, conforming to ticket number 50-2 or 3 tex and 70-2 or 3 tex. All lockstitch (301) shall use 50 tex, for the looper, (401) shall use 50 tex for the needle and 70 or 50 tex for the looper, overedging (503 and 504) shall use 70 tex, and safety stitching (515 and 516) shall use 50 tex for the needle thread and 70 tex for other threads.
- I-\* **Fly and Crotch:** Left fly to extend minimum of 3/8 inch beyond slide fastener tape to keep it concealed. Fly shall be bartacked at bottom of fly curve. Right fly lining to extend down to junction of side and seat seams. Right and left flies and zipper tape shall be bartacked together inside at bottom left corner.
- II-\* **Fly and Crotch:** The right fly shall be the same fabric and color as the waistband curtain. The right fly lining shall be sewn to the left fly below the zipper. The right fly lining shall extend to within 1" of the inseams joining seam.
- \* **Buttons:** The left back pocket button shall be: Melamine Potomac M3762, 4 hole, 22 ligne, Forest Green.
- I-\* **Zippers:** A non-corrosive, heavy weight brass zipper with slide fastener or equal shall be used. It shall have an automatic cam lock. Tape shall be a polyester/cotton blend, color to match self-material. Slide fastener to be sewn to each fly with a minimum of 2 rows of lockstitch.

## ATTACHMENT D

**II-\***      **Zippers:** The trousers shall be closed with a brass memory lock slider and zipper and have a brass bottom stop at the base of the zipper chain. A straight bartack shall be sewn through from the outside of the garment to the inside of the bottom of the fly. It shall be sewn through the zipper tape, the right and left fly and the right fly lining. The right and left fly shall be joined by an additional bartack located below the zipper stop on the inside of the trouser.

**\***            **Labels:** See general reference and requirements sheet.

### General Instructions

**I-\***            **Stitching:** Waistband, fly, facing and slide fastener stitching shall be lockstitch (301). Seat seams shall be stitched with two rows of tandem needle chains (401) stitching. Inseams and outseams shall be chain stitched (401) and seams pressed open. Bottom hem shall be turned inside 1-3/8 inches and blind stitched. Minimum stitches per inch shall be 8 except blind stitching which shall be a minimum of 5. All exposed inside seams shall be serged.

**II-\***            **Stitching:** The entire trouser is to be seamed with polyester core or 100% polyester spun thread. The seat seam shall be stitched with a tandem needle seat seaming machine. There shall be a center back seam allowance of no less than 2 1/2" to take care of alterations.

**\***            **Fit:** Trousers shall be full waisted and moderately trim fitting in seat, thigh and knee.

### Detail Design Characteristics

**I-\***            **Waistband:** The waistband shall be 2 inches wide and shall be closed with a crush proof hook and eye, the eye being bartacked for stability. This finished waistband curtain, 2-1/2 inches wide, shall be attached with a rocap machine. Trousers shall have banrol waistband stabilizer sewn into the waistband on the front of the trousers from side seam to side seam. Trousers shall be made with a continuous closed waistband using the closed corner method. The waistband shall be set on and shall be stitched below the lower edge through the outer fabric and the waistband curtain.

**II-\***            **Waistband:** The waistband shall be 1 1/4" wide and shall be closed with a crushproof hook and eye, the eye being bartacked for stability. The waistband curtain shall be attached with a rocap machine. The curtain shall finish 1 1/2" wide and be interlined with a nonwoven. The waistband shall be set on and stitched below the lower edge through the outer fabric and the waistband curtain. There shall be an elastic insert on each side of the trouser. It shall allow the trouser to expand a minimum of 1 1/2" on each side. The elastic shall be one inch wide. The elastic shall be secured on the inside of the waistband curtain on each end with a minimum 1" vertical stitch.

**II-\***            **Front Panel:** The trouser shall have a reinforced panel on each front. It shall be constructed of the same fabric as the pocketing. It shall extend from the waistband topstitch seam approximately 4 inches. The back edge shall be folded and topstitched to the front edge of each front pocket bag. The front edge of each reinforced panel shall be stitched to the fly. The bottom edge of the bellyband shall be tightly serged so it shall not ravel.

**I-\***            **Darts:** One dart shall extend from each hip pocket to the waistband seam.

**II-\***            **Darts:** There shall be one tapering dart over each hip pocket and one on each front panel. The purpose of the darts is to contour the garment to a true female fit. The front darts shall be approximately 3 inches long from the waistband. The hip pocket darts shall extend from the waistband to the top of the hip pocket.

## ATTACHMENT D

- I-\***      **Front Pockets:** The front pockets shall be quarter top type having a minimum opening of 6" and shall be 6" deep from bottom of opening. Facing shall be minimum of 1 5/8". The front pockets shall be stitched, turned and restitched. Ends of pocket opening shall be bartacked.
- II-\***      **Front Pockets:** The front pocket opening shall be a minimum 6" and a minimum of 5 1/2" deep from the bottom of the opening. They shall be stitched, turned and restitched. The inside front pocket facing shall be a separate piece of self-material finishing no less than 1 1/4" wide.
- I-\***      **Back Pockets:** Reece double welt slash style, 5-1/2 inches at opening, 6 inches deep. Ends of opening shall be bartacked. Facing shall be a minimum of 1 inch deep of self-material on the body side. Pockets to be constructed of lining fabric and shall continue into waistband seam to prevent sagging. Left pocket to have tab and button closure. Pockets shall be folded and top stitched.
- II-\***      **Back Pockets:** The back pockets shall have a minimum opening of 5 1/2" wide and shall be 6" deep on size 14 and up. On size 12 and down, the minimum opening shall be 5" wide and 6" deep. They shall be made with an automatic PW machine finished on the outside with an exposed top and bottom cord. The top and bottom pocket beads shall be approximately 1/8" in width and interlined. The left pocket shall have a tab to button. The front and back pockets shall have straight bartacks.
- I-\***      **Belt Loops:** Seven belt loops to be caught in upper and lower waistband seams except back center loop which shall be bartacked. Belt loops to be 3/4" wide and must accommodate a 2" belt.
- II-\***      **Belt Loops:** There shall be a minimum of 5 belt loops on waist sizes 12 and down, and a minimum of 7 on all sizes over 14. Each loop is to be 3/4" wide and shall accommodate a 2" belt.
- \***          **Bottoms:** Bottoms shall be hemmed with a blindstitch and have a minimum of 1 3/4" turned up.

### Sizes and Measurements

#### Finished Dimensions

- \***          **Sizes:** Male:    Short: 28-40  
                              Regular: 28-56  
                              Long: 31-56  
                              X Long: 30-46
- Female    Petite: 4-16  
                              Regular: 2-30  
                              Tall: 6-28



## ATTACHMENT D

### C574 Trousers, Female, Green 11 Oz. 55/45 P/W Tropical

Specifications are identical for the following other components:

N554 Trousers, Male, Green 11 Oz. 55/45 P/W Tropical  
 C555 Trousers, Male, Green 11 Oz. 55/45 P/W Tropical  
 N556 Trousers, Male, Green 16 Oz. 55/45 P/W Elastique  
 C557 Trousers, Male, Green 16 Oz. 55/45 P/W Elastique  
 C562 Trousers, Male, Grey, 11 Oz. P/W Tropical  
 C570 Trousers, Female, Green 16 Oz. 55/45 P/W Elastique  
 N575 Trousers, Female, Green 11 Oz. 55/45 P/W Tropical  
 N576 Trousers, Female, Green 16 Oz. 55/45 P/W Elastique

**Sample Size:** All dimensions are based on Male size 36R and Female size 12R

### GENERAL DESCRIPTION

Plain Front with a slight flare at bottom. Quarter top front pockets, two back pockets, French fly with hook and eye closure, and two back darts. There shall be two darts on the front panel of the female's trousers and no darts on the front of the male's trousers.

**TYPE ITEMS:** \*-Male and Female      Type I—Male      Type II—Female

CLASSIFICATION		NPS (M/F)	COE (M/F)
*	All Trousers	*	*
A	Elastique Trousers	N556/N576	C557/C570
B	Tropical Trousers	N554/N575	C555/ C574/C562

### SALIENT CHARACTERISTICS

#### Components

- \*-A      **Basic Material:** Raeford Mills 16-ounce Forest Green 55% Dacron Polyester/45% Wool Elastique fabric.
- \*-B      **Basic Material:** Raeford Mills 11-ounce Forest Green 55% Dacron Polyester/45% Wool Tropical fabric.
- \*      **Linings:** The material used for pockets, waistband lining and fly lining shall be suitable quality black fabric for dress trousers.
- \*      **Thread:** All thread, except #8 cotton buttonhole gimp, shall be cotton covered polyester conforming to ticket numbers 50-3 ply and 70-2 ply of MIT-T-43548. The color shall match the self-material shade. Size 50-3 ply shall be used for all sewing operations except that 70-2 ply may be used for overedging operations.
- \*      **Button Holes:** Buttonholes shall be eyelet, square bar, gimp reinforced type.
- \*      **Buttons:** The buttons for hip pockets and French fly shall be flat 4-hole, 24 ligne polyester type in plain style, and in a shade similar to or slightly darker than the basic fabric. The buttons for the hip pocket shall be Melamine Potomac M3762, 4 hole, 24 ligne, Forest Green.
- \*      **Zipper:** A brass memory lock slider and zipper with a brass bottom stop at the base of the zipper chain shall be used.

## ATTACHMENT D

- \* **Labels:** See general reference and requirements sheet.

### General Instructions

- I-\* **Stitching:** Center back turnunder shall be no less than 2" to take care of any alterations and the seat seam shall be sewn on a double needle chain stitch (401) machine, having tandem needles with an offset of 1/32nd of an inch. The inseams and outseams, seam allowances shall be 1" wide and sewn with a single needle chain stitch (401) and pressed open inside. All other seams shall use lock stitch (301). All exposed raw edges shall be serged (503 or 504) to prevent raveling. 10-16 stitches per inch are required, except for 5 to 7 stitches per inch for blindstitching.
- II-\* **Stitching:** The seat seam shall be stitched with a tandem needle seat-seaming machine. There shall be a center back seam allowance of no less than 1 5/8" to take care of alterations. 10-16 stitches per inch are required, except for 5 to 7 stitches per inch for blindstitching.
- \* **Bartacks:** There shall be bartacks at all points of strain including base of fly curve, inside bottom edge of fly and all pocket openings. Front pocket openings shall be bartacked at bottom and at top beneath waistband. Each end of hip pockets shall be bartacked. Eye closure in waistband shall be bartacked. All bartacks shall be 3/8 to 1/2" in length.

### Detail Design Characteristics

- II-\* **Front Panel:** The trouser shall have a reinforced panel on each front. It shall be constructed of the same fabric as the pocketing. It shall extend from the waistband topstitch seam approximately 4". The back edge shall be folded and topstitched to the front edge of each front pocket bag. The front edge of each reinforced panel shall be stitched to the fly. The bottom edge of the bellyband shall be tightly serged so it shall not ravel.
- I-\* **Crotch and Fly:** The zipper stay is to be cut of matching specified trim and to be the exact size as the fly and to be serged together. The French fly is to be made of the same material as the trouser. The zipper to be not less than 1/2 inch under the opening. The fly lining is to have a tail covering inseam and crotch. Crotch is to be lined front and back, four quarter, with a double thickness of matching specified trim fabric. The fly shall also have a tab and button closure at the bottom of the waistband. The tab shall be made of basic material.
- II-\* **Crotch and Fly:** The right fly shall be the same fabric and color as the waistband curtain. The right fly lining shall be sewn to the left fly below the zipper. The right fly lining shall extend to within 1" of the inseams joining seam.
- II-\* **Darts:** There shall be one tapering dart over each hip pocket and one on each front panel. The purpose of the darts is to contour the garment to a true female fit. The front darts shall be approximately 3" long from the waistband. The hip pocket darts shall extend from the waistband to the top of the hip pocket.

## ATTACHMENT D

- I-\***      **Waistband:** The waistband shall be 2" wide and shall be closed with a crush proof hook and eye, the eye being bartacked for stability. The finished waistband curtain, 2 3/8" wide, shall be attached with a rocap machine. The waistband curtain shall be made of the specified trim and shall have 3 strand Snug-tex sewn into the waistband lining. Snug-tex sewn on to the top of the waistband lining shall not be authorized. Trousers shall have banrol waistband stabilizer sewn into the waistband on the front of the trousers from side seam to side seam. Trousers shall be made with a continuous closed waistband using the closed corner method. The waistband shall be set on and shall be stitched below the lower edge through the outer fabric and the waistband curtain.
- II-\***      **Waistband:** The waistband shall be 1 1/4" wide and shall be closed with a crushproof hook and eye, the eye being bartacked for stability. The waistband curtain shall be attached with a rocap machine. The curtain shall finish 1 1/2" wide and be interlined with a nonwoven. No banrol shall be used. The waistband shall be set on and stitched below the lower edge through the outer fabric and the waistband curtain. There shall be an elastic insert on each side of the trouser. It shall allow the trouser to expand a minimum of 1 1/2" on each side. The elastic shall be one inch wide. The elastic shall be secured on the inside of the waistband curtain on each end with a minimum 1" vertical stitch.
- I-\***      **Front Pockets--** Quarter top style with a deep facing of self cloth in order that pocketing does not show. Pocketing shall be made of the specified trim fabric and to be stitched, turned and topstitched. Merrowed edges shall not be acceptable. Pocket opening shall be a minimum of 6 1/2" and pocket depth 10 1/2" to top of slant. Facing shall be a minimum of 1 1/2".
- II-\***      **Front Pockets--** The front pocket opening shall be a minimum 6" and a minimum of 5 1/2" deep from the bottom of the opening. They shall be stitched, turned and restitched. The inside front pocket facing shall be a separate piece of self material finishing no less than 1 1/4" wide. The front pockets shall have straight bartacks.
- I-\***      **Back Pockets--** Two single welt slash pockets with flaps inserted into top - edge. Pocket to finish a minimum of 6 1/4" deep by 5 3/4" wide. Facings shall be minimum of 1" deep of self-material in the body side. Pocketing shall be top stitched. Pocketing shall extend up to and be caught in waistband seam to prevent sagging.
- II-\***      **Back Pockets--** The back pockets shall have a minimum opening of 5 1/2" wide and shall be a minimum of 6" deep on size 14 and up. On size 12 and down, the minimum opening shall be 5" wide and 6" deep. They shall be finished on the outside with an exposed top and bottom cord, with flaps inserted into the top edge. The top and bottom pocket beads shall be approximately 1/8" in width, interlined with pellon. Facings shall be minimum of 1" deep of self-material on the body side. Pocketing shall be stitched, turned and restitched. Pocketing shall extend up to and be caught in waistband seam to prevent sagging. The back pockets shall have straight bartacks.
- \***      **Hip Pocket Flap:** Flap shall be constructed of basic fabric and lined with the specified trim. It shall be constructed with a concealed button hole tab so that bottom closure is concealed. No stitching shall show on the outside of the flap. The flap shall be spade style with a single point. The flap shall measure 1 1/4" on the sides 2 1/4" at the point and the width of the pocket welt.
- I-\***      **Belt Loops:** There shall be 7 belt loops. Belt loops shall be lined with no stitching to show on the outside and shall be 2 1/4" high and 1" wide. All loops to be inserted into both the top and bottom waistband seams with the exception of the back center loop.
- II-\***      **Belt Loops:** There shall be a minimum of 5 belt loops on waist sizes 12 and down, and a minimum of 7 on all sizes over 14. Each loop is to be 1" wide, of double thickness and blindstitched on the back. The center back loop shall be tacked on. All other loops are to be sewn into the rocap at the top and dropped and tacked below the waistband seam. The opening shall be a minimum of 2 1/4".

## ATTACHMENT D

- \* **Bottoms:** All bottoms shall be plain with a minimum of 1 ¾" turnunder and finished with a blind stitch felling machine. Stitched through bottoms is not acceptable.

### Sizes and Measurements

#### Finished Dimensions

I-A	<b>Sizes:</b>	Short: 28-40
		Regular: 28-54
		Long: 32-48
		Xlong: 32-46
I-B	<b>Sizes:</b>	Petite: 2-14
		Regular: 2-30
		Tall: 4-24

## ATTACHMENT D

### C578 Trousers, Female, Green Gore-Tex, Lined Rain/Wind

Specifications are identical for the following other components:

F553 Trousers, Male, Brown Gore-Tex, Lined Rain/Wind

C560 Trousers, Male, Green Gore-Tex, Lined Rain/Wind

N561 Trousers, Male, Green Gore-Tex, Lined Rain/Wind

F573 Trousers, Female, Brown Gore-Tex, Lined Rain/Wind

N579 Trousers, Female, Green Gore-Tex, Lined Rain/Wind

**Sample Size:** All dimensions are based on sizes F553, C560, N561, C578, N579 - Large,  
F573 - Medium

### GENERAL DESCRIPTION

Fully lined Gore-Tex pants or equal featuring full length side zippers with inside weather flaps with elastic waist band and hook and pile tape side waistband closures.

**TYPE ITEMS:** \*-Male and Female      Type I—Male      Type II—Female

CLASSIFICATION		COE (M/F)	NPS (M/F)
*	All Trousers	*	*
A	Green	C560/C578	N561/N579 FWS (M/F)
B	Brown		F553/F573

### SALIENT CHARACTERISTICS

#### Components

- \*-A      **Basic Material:** The material shall be taslan nylon bonded to Gore-Tex film, Forest Green.
- \*-B      **Basic Material:** The material shall be taslan nylon bonded to Gore-Tex film, dark brown.
- \*      **Thread:** All thread shall be minimum size 60/36.
- \*      **Seams:** The crotch and inseams shall be full felled (seam type LS c-2) ¼" gauge. All stitching shall be stitch type 301. All closing seams shall be hot air heat sealed with Gore-Tex sealing tape on the inside of the pants. Sealed seams and stitching shall show no leakage.
- \*      **Zippers:** The side zippers shall be plastic scoop type, size 5 or equal. The zippers shall have two single pull, long tab sliders mouth-to-mouth. The tapes shall be 5/8" wide.
- \*      **Labels:** See general reference and requirements sheet.

#### Detail Design Characteristics

- \*      **Lining:** The pants shall be fully lined.
- I-A      **Waistband:** The front and back waistbands and waistband linings shall be 2" wide. A 1 ¾" wide elastic band shall be sewn between the waistband and lining, extending to the waistband tabs on the front, and between the inner edges of the pile tape. The band shall be sewn down with one center row of stitching and stitched to the bottom of the waistband.

## ATTACHMENT D

The front waistband shall be 15 ½" long relaxed. A 1 ½" wide by 2" long piece of hook tape shall be sewn to the inside of each waistband tab centered with one end of the tape ¼" from the end of the waistband top.

The back waistband shall be 15 ½" long relaxed. A 1 ½" wide by 2" long piece of loop tape shall be sewn to the outside of each waistband end, centered with the end of the tape ¼" from the end of the waistband.

The waistband shall have four snapped belt loops equally spaced for a duty belt.

**I-B      **Waistband:**** The front and back waistbands and waistband linings shall be 2" wide and interlined with a compatible non-woven material. The front waistband shall be 25" long and edge stitched 1/8" gauge. The waistband and lining shall be basic material, one-piece construction. A 1 ½" wide by 4" long piece of pile tape shall be sewn to the inside of each waistband end, centered with the one end of the tape even with the end of the waistband.

The back waistband shall be 21" long and edge stitched 1/8" gauge. A 1 ½" wide by 3" long piece of hook tape shall be sewn to the outside of each waistband end, centered with the end of the tape ¼" from the end of the waistband. A 1 ¾" wide elastic band shall be sewn between the waistband and lining and shall extend between the inner edges of the hook tape and be sewn down and shirred with 3 rows of stitching, ½" gauge.

**II-A      **Waistband:**** The front and back waistbands and waistband linings shall be 2" wide. A 1 ½" wide elastic band shall be sewn between the waistband and lining, extending to the waistband tabs on the front, and between the inner edges of the pile tape. The band shall be sewn down with one center row of stitching and stitched to the bottom of the waistband.

The front waistband shall be 12 ¼" long relaxed. A 1 ½" wide by 2" long piece of hook tape shall be sewn to the inside of each waistband tab centered with one end of the tape ¼" from the end of the waistband top.

The back waistband shall be 15 ½" long relaxed. A 1 ½" wide by 2" long piece of loop tape shall be sewn to the outside of each waistband end, centered with the end of the tape ¼" from the end of the waistband.

The waistband shall have four snapped belt loops equally spaced for a duty belt.

**II-B      **Waistband:**** The front and back waistbands and waistband linings shall be 2" wide and interlined with a compatible non-woven material. The front waistband shall be 20 ½" long and edge stitched 1/8" gauge. The waistband and lining shall be basic material, one-piece construction. A 1 ½" wide by 4" long piece of pile tape shall be sewn to the inside of each waistband end, centered with the one end of the tape even with the end of the waistband.

The back waistband shall be 18" long and edge stitched 1/8" gauge. A 1 ½" wide by 3" long piece of hook tape shall be sewn to the outside of each waistband end, centered with the end of the tape ¼" from the end of the waistband. A 1 ¾" wide elastic band shall be sewn between the waistband and lining and shall extend between the inner edges of the hook tape and be sewn down and shirred with 3 rows of stitching, ½" gauge.

## ATTACHMENT D

- I-A Outseam Opening:** Each outseam shall close with a full length zipper. The zipper shall start at the bottom of the waistband and end less than 1" from the pant bottom edge. A full length under flap and lining constructed of basic material shall be 1 ½" wide and caught with the zipper tape between the rear panel and the lining panel. A 2" long basic material tab shall be 1 ½" wide on the outside edge and 2 ½" wide where it is attached with the zipper tape between the front panel and lining panel. A 24 ligne female snap shall be attached in the bottom outside corner ½" from each edge. A male snap shall be attached on the back panel ¾" from the outseam and ½" from the bottom edge of the pants. The outseam shall be 43 ¼" long between the waistband top and the bottom edge of the pant leg along the zipper.
- I-B Outseam Opening:** Each outseam shall close with a full length zipper. The zipper shall start at the bottom of the waistband and end less than 1" from the pant bottom edge. A full length under flap and lining constructed of basic material shall be 1 ½" wide and caught with the zipper tape between the rear panel and the lining panel. A 2" long basic material tab shall be 1 ½" wide on the outside edge and 2 ½" wide where it is attached with the zipper tape between the front panel and lining panel. A 24 ligne female snap shall be attached in the bottom outside corner ½" from each edge. A male snap shall be attached on the back panel ¾" from the outseam and ½" from the bottom edge of the pants. The outseam shall be 44" long between the waistband top and the bottom edge of the pant leg along the zipper.
- II-A Outseam Opening:** Each outseam shall close with a full length zipper. The zipper shall start at the bottom of the waistband and end less than 1" from the pant bottom edge. A full length under flap and lining constructed of basic material shall be 1 ½" wide and caught with the zipper tape between the rear panel and the lining panel. A 2" long basic material tab shall be 1 ½" wide on the outside edge and 2 ½" wide where it is attached with the zipper tape between the front panel and lining panel. A 24 ligne female snap shall be attached in the bottom outside corner ½" from each edge. A male snap shall be attached on the back panel ¾" from the outseam and ½" from the bottom edge of the pants. The outseam shall be 42" long between the waistband top and the bottom edge of the pant leg along the zipper.
- II-B Outseam Opening:** Each outseam shall close with a full length zipper. The zipper shall start at the bottom of the waistband and end less than 1" from the pant bottom edge. A full length under flap and lining constructed of basic material shall be 1 ½" wide and caught with the zipper tape between the rear panel and the lining panel. A 2" long basic material tab shall be 1 ½" wide on the outside edge and 2 ½" wide where it is attached with the zipper tape between the front panel and lining panel. A 24 ligne female snap shall be attached in the bottom outside corner ½" from each edge. A male snap shall be attached on the back panel ¾" from the outseam and ½" from the bottom edge of the pants. The outseam shall be 42" long between the waistband top and the bottom edge of the pant leg along the zipper.
- I-\* Reinforcement Patch:** The patch shall reinforce the seat area and shall be constructed from reinforcement fabric. The sides shall end 1 ½" from inside edges of weather flaps and shall extend down 21 ½". The top edge shall be caught in the waistband seam and sides shall be folded under and topstitched 1/8" gauge to the weather flaps. The bottom edge of the patch shall be joined to the lining with seam allowances not showing. The urethane coating shall face to the outside of the pants.
- II-A Reinforcement Patch:** The patch shall reinforce the seat area and shall be constructed from reinforcement fabric. The sides shall end 1 ½" from inside edges of weather flaps and shall extend down 19 ¼". The top edge shall be caught in the waistband seam and sides shall be folded under and topstitched 1/8" gauge to the weather flaps. The bottom edge of the patch shall be joined to the lining with seam allowances not showing. The urethane coating shall face to the outside of the pants.

## ATTACHMENT D

- II-B Reinforcement Patch:** The patch shall reinforce the seat area and shall be constructed from reinforcement fabric. The sides shall end 1 ½” from inside edges of weather flaps and shall extend down 19 ½”. The top edge shall be caught in the waistband seam and sides shall be folded under and topstitched 1/8” gauge to the weather flaps. The bottom edge of the patch shall be joined to the lining with seam allowances not showing. The urethane coating shall face to the outside of the pants.

### Sizes and Measurements

- \* **Finished Dimensions**
- \* **Sizes:** Male - Regular: S-XXL  
Male - Long: M-XXL  
Female - S-XL



## ATTACHMENT D

### C587 Vest, Male, Green Nylon Insulated with Badge Tab

Specifications are identical for the following other components:

N588 Vest, Male, Green Nylon, Insulated with Badge Tab  
N622 Vest, Male, Green Nylon, Insulated without Badge Tab  
F586 Vest, Male, Brown Nylon, Insulated without Badge Tab  
C591 Vest, Female, Green Nylon Insulated with Badge Tab  
N592 Vest, Female, Green Nylon Insulated with Badge Tab  
N623 Vest, Female, Green Nylon Insulated without Badge Tab  
F590 Vest, Female, Brown Nylon, Insulated without Badge Tab

**Sample Size:** All dimensions are based on Male size L and Female size M

### GENERAL DESCRIPTION

Raven Industries (or equal) Thinsulate/Fleece lined insulated vest with a zipper front and two hand warmer pockets, with/without badge tab holder and name plate.

**TYPE ITEMS:** \*--All Vests      Type I—Male      Type II—Female

CLASSIFICATION		COE # (M/F)	NPS # (M/F)	FWS # (M/F)
*	<b>All Vests</b>	*	*	*
A	With Badge Tab, Green	C587/C591	N588/N592	*
B	Without Badge Tab, Green	*	N622/623	*
C	Without Badge Tab, Brown	*	*	F586/F590

### SALIENT CHARACTERISTICS

#### Components

- \*-A/B      **Basic Material:** The material shall be taslon nylon, 2 ply, with 3M thinsulate insulation and fleece lining, Forest Green. The fronts, back and collar shall be fully insulated with 60-70 grams per square meter Thinsulate insulation or equal.
- \*-C      **Basic Material:** The material shall be taslon nylon, 2 ply, with 3M thinsulate insulation and fleece lining, brown. The fronts, back and collar shall be fully insulated with 60-70 grams per square meter Thinsulate insulation or equal.
- \*      **Thread:** All thread except topstitching shall be minimum size 60/36. Color consistent with basic material.
- \*      **Zipper:** The zipper shall be a Vislon plastic scoop type, size 5 or equal. The zipper shall be a single pull, single slider with a long pull-tab. The tape shall be a minimum 1/2" wide.
- \*      **Labels:** See general references and requirements sheet.

#### Detail Design Characteristics

- \*      **Collar:** The stand up collar shall be one piece construction made from shell fabric on the outside and fleece on the inside. The collar shall be 3" wide at the front edge and not less than 2 3/4" wide at center back.

## ATTACHMENT D

- I-\***      **Front:** The front shall have a zipper closure from the top of the collar down to within  $\frac{3}{4}$ " of the bottom edge. The front length shall be  $20\frac{1}{2}$ " long from collar seam to bottom edge. The front zipper shall be 23" long from top of collar to bottom. Zipper tapes shall be caught between front folded edges of vest shell and lining with the folded edges topstitched  $\frac{1}{4}$ " gauge. The bottom edge shall form a curve gradually tapering up from the center front to the side seams. The side length shall be 11" from armhole to bottom edge. The half chest shall be 24" wide.
- II-\***      **Front:** The front shall have a zipper closure from the top of the collar down to within  $\frac{3}{4}$ " of the bottom edge. The front length shall be  $17\frac{1}{2}$ " long from collar seam to bottom edge. The front zipper shall be 20" long from top of collar to bottom. Zipper tapes shall be caught between front folded edges of vest shell and lining with the folded edges topstitched  $\frac{1}{4}$ " Gauge. The bottom edge shall form a curve gradually tapering up from the center front to the side seams. The side length shall be  $9\frac{1}{4}$ " from armhole to bottom edge. The half chest shall be 21" wide.
- I-\***      **Back:** The back shall be plain. The center back shall be 24" long from the collar seam to the bottom edge.
- II-\***      **Back:** The back shall be plain. The center back shall be  $19\frac{1}{4}$ " long from the collar seam to the bottom edge.
- I-\***      **Pockets:** A single welt slash pocket shall be located on each front. The bottom of the pocket opening shall be 2" above the bottom front edge and  $4\frac{1}{2}$ " from the side seam. The top of the pocket opening shall be  $8\frac{1}{2}$ " above the bottom front edge and  $4\frac{5}{8}$ " from the side seam. The opening shall be  $6\frac{5}{8}$ " long. The welt shall be  $6\frac{5}{8}$ " long and  $\frac{5}{8}$ " wide. Welt edges shall be top stitched  $\frac{1}{16}$ " gauge. Pocket lining shall be shell fabric and shall be 7" deep at center.
- II-\***      **Pockets:** A single welt slash pocket shall be located on each front. The bottom of the pocket opening shall be  $1\frac{7}{8}$ " above the bottom front edge and  $2\frac{1}{4}$ " from the side seam. The top of the pocket opening shall be 8" above the bottom front edge and  $3\frac{3}{4}$ " from the side seam. The opening shall be  $5\frac{5}{8}$ " long. The welt shall be  $5\frac{5}{8}$ " long and  $\frac{5}{8}$ " wide. Welt edges shall be top stitched  $\frac{1}{16}$ " gauge. Pocket lining shall be shell fabric and shall be 7" deep at center.
- \*-A**      **Badge Reinforcement:** Badge and name tabs shall be constructed from the outer shell fabric. The tabs shall finish  $\frac{1}{2}$ " wide with  $\frac{1}{8}$ " top stitching and the tab ends shall be turned under  $\frac{1}{4}$ " and attached to the fronts with bartacks  $\frac{1}{16}$ " from the folded edge. The badge tab shall be 2" long with two sewn eyelets centered  $\frac{15}{16}$ " apart. The badge tab shall be located on the left front in vertical alignment with the inner edge  $3\frac{3}{4}$ " from the left front fly edge and the top edge  $6\frac{1}{4}$ " below the front shoulder seam. The name tab shall be 3" long with two sewn eyelets centered  $1\frac{7}{8}$ " apart. Badge tab and name tag backtacked.
- I-\***      **Armhole:** The shoulder seam shall be 6" long. The armhole shell and lining shall be stitched, turned and topstitched  $\frac{1}{4}$ " gauge.
- II-\***      **Armhole:** The shoulder seam shall be  $4\frac{1}{2}$ " long. The armhole shell and lining shall be stitched, turned and topstitched  $\frac{1}{4}$ " gauge.
- \***      **Bottom:** The bottom edge of the shell and lining shall be stitched, turned and topstitched  $\frac{1}{4}$ " gauge.
- \***      **Hanger Loop:** A  $\frac{3}{8}$ " wide black nylon tape hanger loop  $1\frac{3}{4}$ " long shall be sewn into the inside collar seam at center back.

## ATTACHMENT D

### Sizes and Measurements

#### Finished Dimensions

<b>I-*</b>	<b>Sizes:</b>	Regular: XS-XXXXL
		Long: S-XXXXL
<b>II-*</b>	<b>Sizes:</b>	Regular: XS-XXL
		Long: M-XXL

## ATTACHMENT D

### C591 Vest, Female, Green Nylon Insulated with Badge Tab

Specifications are identical for the following other components:

C587 Vest, Male, Green Nylon Insulated with Badge Tab  
N588 Vest, Male, Green Nylon, Insulated with Badge Tab  
N622 Vest, Male, Green Nylon, Insulated without Badge Tab  
F586 Vest, Male, Brown Nylon, Insulated without Badge Tab  
N592 Vest, Female, Green Nylon Insulated with Badge Tab  
N623 Vest, Female, Green Nylon Insulated without Badge Tab  
F590 Vest, Female, Brown Nylon, Insulated without Badge Tab

**Sample Size:** All dimensions are based on Male size L and Female size M

### GENERAL DESCRIPTION

Raven Industries (or equal) Thinsulate/Fleece lined insulated vest with a zipper front and two hand warmer pockets, with/without badge tab holder and name plate.

**TYPE ITEMS:** \*--All Vests      Type I—Male      Type II—Female

CLASSIFICATION	COE # (M/F)	NPS # (M/F)	FWS # (M/F)
* <b>All Vests</b>	*	*	*
A      With Badge Tab, Green	C587/C591	N588/N592	*
B      Without Badge Tab, Green	*	N622/623	*
C      Without Badge Tab, Brown	*	*	F586/F590

### SALIENT CHARACTERISTICS

#### Components

- \*-A/B      **Basic Material:** The material shall be taslon nylon, 2 ply, with 3M thinsulate insulation and fleece lining, Forest Green. The fronts, back and collar shall be fully insulated with 60-70 grams per square meter Thinsulate insulation or equal.
- \*-C      **Basic Material:** The material shall be taslon nylon, 2 ply, with 3M thinsulate insulation and fleece lining, brown. The fronts, back and collar shall be fully insulated with 60-70 grams per square meter Thinsulate insulation or equal.
- \*      **Thread:** All thread except topstitching shall be minimum size 60/36. Color consistent with basic material.
- \*      **Zipper:** The zipper shall be a Vislon plastic scoop type, size 5 or equal. The zipper shall be a single pull, single slider with a long pull-tab. The tape shall be a minimum 1/2" wide.
- \*      **Labels:** See general references and requirements sheet.

#### Detail Design Characteristics

- \*      **Collar:** The stand up collar shall be one piece construction made from shell fabric on the outside and fleece on the inside. The collar shall be 3" wide at the front edge and not less than 2 3/4" wide at center back.

## ATTACHMENT D

- I-\*** **Front:** The front shall have a zipper closure from the top of the collar down to within  $\frac{3}{4}$ " of the bottom edge. The front length shall be  $20\frac{1}{2}$ " long from collar seam to bottom edge. The front zipper shall be 23" long from top of collar to bottom. Zipper tapes shall be caught between front folded edges of vest shell and lining with the folded edges topstitched  $\frac{1}{4}$ " gauge. The bottom edge shall form a curve gradually tapering up from the center front to the side seams. The side length shall be 11" from armhole to bottom edge. The half chest shall be 24" wide.
- II-\*** **Front:** The front shall have a zipper closure from the top of the collar down to within  $\frac{3}{4}$ " of the bottom edge. The front length shall be  $17\frac{1}{2}$ " long from collar seam to bottom edge. The front zipper shall be 20" long from top of collar to bottom. Zipper tapes shall be caught between front folded edges of vest shell and lining with the folded edges topstitched  $\frac{1}{4}$ " Gauge. The bottom edge shall form a curve gradually tapering up from the center front to the side seams. The side length shall be  $9\frac{1}{4}$ " from armhole to bottom edge. The half chest shall be 21" wide.
- I-\*** **Back:** The back shall be plain. The center back shall be 24" long from the collar seam to the bottom edge.
- II-\*** **Back:** The back shall be plain. The center back shall be  $19\frac{1}{4}$ " long from the collar seam to the bottom edge.
- I-\*** **Pockets:** A single welt slash pocket shall be located on each front. The bottom of the pocket opening shall be 2" above the bottom front edge and  $4\frac{1}{2}$ " from the side seam. The top of the pocket opening shall be  $8\frac{1}{2}$ " above the bottom front edge and  $4\frac{5}{8}$ " from the side seam. The opening shall be  $6\frac{5}{8}$ " long. The welt shall be  $6\frac{5}{8}$ " long and  $\frac{5}{8}$ " wide. Welt edges shall be top stitched  $\frac{1}{16}$ " gauge. Pocket lining shall be shell fabric and shall be 7" deep at center.
- II-\*** **Pockets:** A single welt slash pocket shall be located on each front. The bottom of the pocket opening shall be  $1\frac{7}{8}$ " above the bottom front edge and  $2\frac{1}{4}$ " from the side seam. The top of the pocket opening shall be 8" above the bottom front edge and  $3\frac{3}{4}$ " from the side seam. The opening shall be  $5\frac{5}{8}$ " long. The welt shall be  $5\frac{5}{8}$ " long and  $\frac{5}{8}$ " wide. Welt edges shall be top stitched  $\frac{1}{16}$ " gauge. Pocket lining shall be shell fabric and shall be 7" deep at center.
- \*-A** **Badge Reinforcement:** Badge and name tabs shall be constructed from the outer shell fabric. The tabs shall finish  $\frac{1}{2}$ " wide with  $\frac{1}{8}$ " top stitching and the tab ends shall be turned under  $\frac{1}{4}$ " and attached to the fronts with bartacks  $\frac{1}{16}$ " from the folded edge. The badge tab shall be 2" long with two sewn eyelets centered  $\frac{15}{16}$ " apart. The badge tab shall be located on the left front in vertical alignment with the inner edge  $3\frac{3}{4}$ " from the left front fly edge and the top edge  $6\frac{1}{4}$ " below the front shoulder seam. The name tab shall be 3" long with two sewn eyelets centered  $1\frac{7}{8}$ " apart. Badge tab and name tag backtacked.
- I-\*** **Armhole:** The shoulder seam shall be 6" long. The armhole shell and lining shall be stitched, turned and topstitched  $\frac{1}{4}$ " gauge.
- II-\*** **Armhole:** The shoulder seam shall be  $4\frac{1}{2}$ " long. The armhole shell and lining shall be stitched, turned and topstitched  $\frac{1}{4}$ " gauge.
- \*** **Bottom:** The bottom edge of the shell and lining shall be stitched, turned and topstitched  $\frac{1}{4}$ " gauge.
- \*** **Hanger Loop:** A  $\frac{3}{8}$ " wide black nylon tape hanger loop  $1\frac{3}{4}$ " long shall be sewn into the inside collar seam at center back.

## ATTACHMENT D

### Sizes and Measurements

#### Finished Dimensions

<b>I-*</b>	<b>Sizes:</b>	Regular: XS-XXXXL
		Long: S-XXXXL
<b>II-*</b>	<b>Sizes:</b>	Regular: XS-XXL
		Long: M-XXL

## ATTACHMENT D

**C602 Cap, Ball, Green Mesh, Summer**

**Specifications are identical for the following other components:**

**F606 Cap, Ball, Brown Mesh, Summer**  
**N604 Cap, Ball, Green Mesh, Summer**  
**F252 Cap, Ball, Blue Mesh, Volunteer**  
**C603 Cap, Ball, Green Twill, Winter**  
**N605 Cap, Ball, Green Twill, Winter**  
**F607 Cap, Ball, Brown Twill, Winter**  
**F256 Cap, Ball, Blue Twill, Volunteer**

**Sample Size:** Regular

### GENERAL DESCRIPTION

Enclosed baseball style cap with six piece crown contour shape and direct embroidery.

**TYPE ITEMS:** \*--All Caps

CLASSIFICATION		COE Spec #	NPS Spec #
*	All Caps	*	*
A	Mesh, Green	C602	N604
B	Twill, Green	C603	N605
		FWS Spec #	
*	All Caps	*	
C	Mesh, Brown	F606	
D	Twill, Brown	F607	
E	Mesh, Blue	F252	
F	Twill, Blue	F256	

### SALIENT CHARACTERISTICS

#### Components

- A **Basic Material:** The two front crown sections and upper visor sections shall be made from Forest Green Chetopa IV material. Black is the preferred color of the under visor section. The four side and back crown sections shall be made from 100% nylon mesh to match material of front crown section. The visor interliner shall be a sheet stock of .080" high-density polyethylene resin code LH901. The tape for the crown seams shall be 100% nylon knitted 40denier fabric.
- C **Basic Material:** The two front crown sections and upper visor sections shall be made from Chetopa IV brown material. Black is the preferred color of the under visor section. The four side and back crown sections shall be made from 100% nylon mesh to match material of front crown section. The visor interliner shall be a sheet stock of .080" high-density polyethylene resin code LH901. The tape for the crown seams shall be 100% nylon knitted 40denier fabric.

## ATTACHMENT D

- E     **Basic Material:** The two front crown sections and upper visor sections shall be made from Chetopa IV blue material. Black is the preferred color of the under visor section. The four side and back crown sections shall be made from 100% nylon mesh to match material of front crown section. The visor interliner shall be a sheet stock of .080" high-density polyethylene resin code LH901. The tape for the crown seams shall be 100% nylon knitted 40denier fabric.
- B     **Basic Material:** The six crown sections and visor sections shall be made from Forest Green Chetopa IV material. Black is the preferred color of the under visor section. The visor interliner shall be a sheet stock of .080" high density polyethylene resin code LH901. The tape for the crown seams shall be 100% nylon knitted 40 denier fabric.
- D     **Basic Material:** The six crown sections and visor sections shall be made from Chetopa IV brown material. Black is the preferred color of the under visor section. The visor interliner shall be a sheet stock of .080" high-density polyethylene resin code LH901. The tape for the crown seams shall be 100% nylon knitted 40 denier fabric.
- F     **Basic Material:** The six crown sections and visor sections shall be made from Chetopa IV blue material. Black is the preferred color of the under visor section. The visor interliner shall be a sheet stock of .080" high-density polyethylene resin code LH901. The tape for the crown seams shall be 100% nylon knitted 40 denier fabric.
- \*     **Front Panel:** The front panel shall be constructed of two pieces backed with a fusible monofilament fabric. The panels jointly shall be 8" wide and 6 7/8" high at the center.
- \*     **Visor:** The visor and visor lining shall be the same Chetopa IV fabric interlined with a visor stiffener and sewn with parallel rows of lock stitching that follow the contour of the visor. The visor shall finish smooth without twists or puckers.
- \*     **Sweatband:** The black twill sweatband shall finish a minimum of 1" wide. The sweatband shall not pucker, curve, arc, buckle or twist.
- \*     **Crown:** The crown pieces shall be sewn together, the seam allowance pressed flat, then sewn down the 5/8" tape with stitch type 301 or 401. The crown shall have a sewn in stabilizing strip with a horizontal stitch 3/16" above the visor. A topstitch shall be sewn at the base of the crown on the front two panels.
- \*     **Closing Seams:** The visor and sweatband shall be sewn to the crown with type 301 stitch and the sweatband shall finish smooth and be flat against inside of cap. A button covered with basic material, size 22 ligne, shall be set into the crown at the junction of the six crown pieces. Each of the six panels shall have one sewn eyelet hole.
- \*     **Rear Outlet:** The rear outlet cut shall be folded under and taped down.
- A,C,E   **Backstrap:** The backstrap shall be either matching green, brown, blue (or black) plastic and shall be sewn into the bottom of the left and right rear panel.
- B,D,F   **Backstrap:** The backstrap shall be leather with brass buckle and shall be sewn into the bottom of the left and right rear panel.
- B,D,F   **Direct Embroidery:** The Organizations' logo shall be direct embroidered onto the front panel in the center. The wording and embroidery on the front panel shall be machine embroidered on embroidery machines with automats, and shall not be produced on multhead equipment.



## ATTACHMENT D

Thread color names and numbers are the applicable standard sample for shade and are contained in the DOD Standard Color Card of Official Standardized Shades for Heraldic Yarns for Embroidery and Ribbons. The Color Card is obtainable from the Color Card Association of the United States, Inc., 343 Lexington Avenue, New York, New York 10016.

Thread shall be rayon yarn, finest quality, and colorfast, in the deniers specified.

Stitch scale shall be of sufficient density as to preclude the “bleeding” (or see through) of the background material, and uneven matting (register) of color elements. There shall be sufficient underlay stitching to give a full three-dimensional, high relief appearance to the embroidery. No stitch may be greater than ten millimeters in length.

- F **Embroidery Details:** The U.S. FISH & WILDLIFE SERVICE VOLUNTEER logo shall be direct embroidered onto the center front of the cap.

Thread colors and deniers, along with the necessary number of color changes are identified as follows, and shall closely match the following Heraldic yarn color shades:

Description	Cable Name	Cable No.	Poly
Visor Gold FD 008	Goldenlight HC	67107	90/2
Yellow FD B79	N/A	N/A	90/2
Process Blue FD 48	N/A	N/A	90/2
Amberlite FD B65	BuffHAK	67135	90/2
Light Buff FD 125	M.L. Antique White HAL	67139	90/2
Tan FD 118	N/A	N/A	90/2
Imperial Blue FD B4	Corsaire Blue HCB	67177	90/2

Thread shall be polyester yarn, finest quality, and colorfast, in the deniers specified.

Stitch scale shall be of sufficient density as to preclude the “bleeding” (or see through) of the background material, and uneven matting (register) of color elements. There shall be sufficient underlay stitching to give a full three-dimensional, high relief appearance to the embroidery. No stitch may be greater than ten millimeters in length.

Double thread or any thread of different deniers or plys shall not be permitted in any part of the embroidery. Single thread stitching in the deniers and plys above shall be used throughout.

## ATTACHMENT D

- \* **Thread:** The thread shall be polyester, size 40 or cotton-covered polyester, size 50 color dyed to match basic material except the direct embroidery threads which shall conform to the sample specifications.
- \* **Stitches Per Inch:** The stitches per inch shall be 7-9 for all cap operations except 5 stitches per inch on the visor.
- \* **Sizes :** Regular and Extra Large

## ATTACHMENT D

**C603 Cap, Ball, Green Twill, Winter**

**Specifications are identical for the following other components:**

**C602 Cap, Ball, Green Mesh, Summer**  
**N604 Cap, Ball, Green Mesh, Summer**  
**F606 Cap, Ball, Brown Mesh, Summer**  
**F252 Cap, Ball, Blue Mesh, Volunteer**  
**N605 Cap, Ball, Green Twill, Winter**  
**F607 Cap, Ball, Brown Twill, Winter**  
**F256 Cap, Ball, Blue Twill, Volunteer**

**Sample Size:** Regular

### GENERAL DESCRIPTION

Enclosed baseball style cap with six piece crown contour shape and direct embroidery.

**TYPE ITEMS:** \*--All Caps

CLASSIFICATION		COE Spec #	NPS Spec #
*	All Caps	*	*
A	Mesh, Green	C602	N604
B	Twill, Green	C603	N605
		FWS Spec #	
*	All Caps	*	
C	Mesh, Brown	F606	
D	Twill, Brown	F607	
E	Mesh, Blue	F252	
F	Twill, Blue	F256	

### SALIENT CHARACTERISTICS

#### Components

- A Basic Material:** The two front crown sections and upper visor sections shall be made from Forest Green Chetopa IV material. Black is the preferred color of the under visor section. The four side and back crown sections shall be made from 100% nylon mesh to match material of front crown section. The visor interliner shall be a sheet stock of .080" high-density polyethylene resin code LH901. The tape for the crown seams shall be 100% nylon knitted 40denier fabric.
- C Basic Material:** The two front crown sections and upper visor sections shall be made from Chetopa IV brown material. Black is the preferred color of the under visor section. The four side and back crown sections shall be made from 100% nylon mesh to match material of front crown section. The visor interliner shall be a sheet stock of .080" high-density polyethylene resin code LH901. The tape for the crown seams shall be 100% nylon knitted 40denier fabric.
- E Basic Material:** The two front crown sections and upper visor sections shall be made from Chetopa IV blue material. Black is the preferred color of the under visor section. The four side and back crown sections shall be made from 100% nylon mesh to match material of front crown section. The visor interliner shall be a sheet stock of .080" high-density polyethylene resin code LH901. The tape for the crown seams shall be 100% nylon knitted 40denier fabric.

## ATTACHMENT D

- B     **Basic Material:** The six crown sections and visor sections shall be made from Forest Green Chetopa IV material. Black is the preferred color of the under visor section. The visor interliner shall be a sheet stock of .080" high density polyethylene resin code LH901. The tape for the crown seams shall be 100% nylon knitted 40 denier fabric.
- D     **Basic Material:** The six crown sections and visor sections shall be made from Chetopa IV brown material. Black is the preferred color of the under visor section. The visor interliner shall be a sheet stock of .080" high-density polyethylene resin code LH901. The tape for the crown seams shall be 100% nylon knitted 40 denier fabric.
- F     **Basic Material:** The six crown sections and visor sections shall be made from Chetopa IV blue material. Black is the preferred color of the under visor section. The visor interliner shall be a sheet stock of .080" high-density polyethylene resin code LH901. The tape for the crown seams shall be 100% nylon knitted 40 denier fabric.
- \*     **Front Panel:** The front panel shall be constructed of two pieces backed with a fusible monofilament fabric. The panels jointly shall be 8" wide and 6 7/8" high at the center.
- \*     **Visor:** The visor and visor lining shall be the same Chetopa IV fabric interlined with a visor stiffener and sewn with parallel rows of lock stitching that follow the contour of the visor. The visor shall finish smooth without twists or puckers.
- \*     **Sweatband:** The black twill sweatband shall finish a minimum of 1" wide. The sweatband shall not pucker, curve, arc, buckle or twist.
- \*     **Crown:** The crown pieces shall be sewn together, the seam allowance pressed flat, then sewn down the 5/8" tape with stitch type 301 or 401. The crown shall have a sewn in stabilizing strip with a horizontal stitch 3/16" above the visor. A topstitch shall be sewn at the base of the crown on the front two panels.
- \*     **Closing Seams:** The visor and sweatband shall be sewn to the crown with type 301 stitch and the sweatband shall finish smooth and be flat against inside of cap. A button covered with basic material, size 22 ligne, shall be set into the crown at the junction of the six crown pieces. Each of the six panels shall have one sewn eyelet hole.
- \*     **Rear Outlet:** The rear outlet cut shall be folded under and taped down.
- A,C,E   **Backstrap:** The backstrap shall be either matching green, brown, blue (or black) plastic and shall be sewn into the bottom of the left and right rear panel.
- B,D,F   **Backstrap:** The backstrap shall be leather with brass buckle and shall be sewn into the bottom of the left and right rear panel.
- B,D,F   **Direct Embroidery:** The Organizations' logo shall be direct embroidered onto the front panel in the center. The wording and embroidery on the front panel shall be machine embroidered on embroidery machines with automats, and shall not be produced on multhead equipment.

Thread color names and numbers are the applicable standard sample for shade and are contained in the DOD Standard Color Card of Official Standardized Shades for Heraldic Yarns for Embroidery and Ribbons. The Color Card is obtainable from the Color Card Association of the United States, Inc., 343 Lexington Avenue, New York, New York 10016.

## ATTACHMENT D

Thread shall be rayon yarn, finest quality, and colorfast, in the deniers specified.

Stitch scale shall be of sufficient density as to preclude the “bleeding” (or see through) of the background material, and uneven matting (register) of color elements. There shall be sufficient underlay stitching to give a full three-dimensional, high relief appearance to the embroidery. No stitch may be greater than ten millimeters in length.

- F **Embroidery Details:** The U.S. FISH & WILDLIFE SERVICE VOLUNTEER logo shall be direct embroidered onto the center front of the cap.

Thread colors and deniers, along with the necessary number of color changes are identified as follows, and shall closely match the following Heraldic yarn color shades:

Description	Cable Name	Cable No.	Poly
Visor Gold FD 008	Goldenlight HC	67107	90/2
Yellow FD B79	N/A	N/A	90/2
Process Blue FD 48	N/A	N/A	90/2
Amberlite FD B65	BuffHAK	67135	90/2
Light Buff FD 125	M.L. Antique White HAL	67139	90/2
Tan FD 118	N/A	N/A	90/2
Imperial Blue FD B4	Corsaire Blue HCB	67177	90/2

Thread shall be polyester yarn, finest quality, and colorfast, in the deniers specified.

Stitch scale shall be of sufficient density as to preclude the “bleeding” (or see through) of the background material, and uneven matting (register) of color elements. There shall be sufficient underlay stitching to give a full three-dimensional, high relief appearance to the embroidery. No stitch may be greater than ten millimeters in length.

Double thread or any thread of different deniers or plys shall not be permitted in any part of the embroidery. Single thread stitching in the deniers and plys above shall be used throughout.

## ATTACHMENT D

- \* **Thread:** The thread shall be polyester, size 40 or cotton-covered polyester, size 50 color dyed to match basic material except the direct embroidery threads which shall conform to the sample specifications.
- \* **Stitches Per Inch:** The stitches per inch shall be 7-9 for all cap operations except 5 stitches per inch on the visor.
- \* **Sizes :** Regular and Extra Large

## ATTACHMENT D

**C618 Shirt, Maternity Smock, Grey, 4.25 Oz. 65/35 Poly/Cotton, Long Sleeve**

**Specifications are identical for the following components:**

**N619 Shirt, Maternity Smock, Grey, 4.25 Oz. 65/35 Poly/Cotton, Long Sleeve**

**C620 Shirt, Maternity Smock, Grey, 4.25 Oz. 65/35 Poly/Cotton, Short Sleeve**

**N621 Shirt, Maternity Smock, Grey, 4.25 Oz. 65/35 Poly/Cotton, Short Sleeve**

**Sample Sizes:** Medium

### GENERAL DESCRIPTION

Maternity shirt both short sleeve and long sleeve with two vertical front pleats for expansion, banded collar, functional epaulets and a sling badge tab.

**TYPE ITEMS :** \* All Shirts

CLASSIFICATION	COE #	NPS #
* All Shirts	*	*
A Long Sleeve	C618	N619
B Short Sleeve	C620	N621

### SALIENT CHARACTERISTICS

#### Components

Type-Class

- \*\_\* **Basic Material:** The material shall be grey 4.25 Oz. 65% Polyester/ 35% Cotton, Poplin, Grey, Light Olive.
- \*\_\* **Style:** Maternity shirts with 10" placket front and four button closure.
- \*\_\* **Collar:** The back of the stand shall measure 1 ½ inches. The points shall be 2 7/8 inches in height and top stitched 3/16 inches from edge. The interlinings shall be 100% polyester, 250 denier. The inside collar band fabric shall be polyester satin lined with crease interlining. Permanent collar stays shall be placed parallel to the front collar edge and are fused or sewn inside the collar so that no stitches are made through the bottom leaf. The stand shall fasten with one button.
- \*\_\* **Yoke:** A two piece yoke shall be lined on the inside with self material. The yoke shall measure 2 ¾" at center back and 2 ½" at outside edges. The back of the yoke shall be top stitched 1/16".
- \*\_\* **Button Holes:** The placket shall have three buttons and three buttonholes. The collar stand shall have one button and buttonhole. The long sleeve has one button and buttonhole on the cuff.
- \*\_\* **Pleats:** Front pleat starts at bottom of placket and shall continue to finished bottom of shirt. Dress collar shall have center back pleat.
- \*-A **Sleeves:** Each sleeve shall have one piece continuous pointed placket, 1 ¼" wide both top and bottom, with one button and buttonhole centered in vent opening. Sleeve setting and closing shall be done with an over-edge and safety stitched. Interlined cuffs shall close with two buttons and buttonholes.
- \*-B **Sleeves:** Sleeves shall be one piece, have a 7/8" hem and finish approximately nine inches from the shoulder seam. Sleeve setting and closing shall be done with an over-edge and safety stitch. The entire opening shall be hemmed.

## ATTACHMENT D

\*\_\* **Patch:** The patch shall be sewn securely to the center of the left sleeve with the top edge 1 ½” below the shoulder seam. The patch shall be sewn with inconspicuous stitching using thread matching the emblem background color.

### Sizes and Measurements

Sizes: Small - 4 - 6  
Medium - 8 - 10  
Large - 12- 14  
XL - 16 - 18



## ATTACHMENT D

**C620 Shirt, Maternity Smock, Grey, 4.25 Oz. 65/35 Poly/Cotton, Short Sleeve**

**Specifications are identical for the following components:**

**C618 Shirt, Maternity Smock, Grey, 4.25 Oz. 65/35 Poly/Cotton, Long Sleeve**

**N619 Shirt, Maternity Smock, Grey, 4.25 Oz. 65/35 Poly/Cotton, Long Sleeve**

**N621 Shirt, Maternity Smock, Grey, 4.25 Oz. 65/35 Poly/Cotton, Short Sleeve**

**Sample Sizes:** Medium

### GENERAL DESCRIPTION

Maternity shirt both short sleeve and long sleeve with two vertical front pleats for expansion, banded collar, functional epaulets and a sling badge tab.

**TYPE ITEMS :** \* All Shirts

CLASSIFICATION	COE #	NPS #
* All Shirts	*	*
A Long Sleeve	C618	N619
B Short Sleeve	C620	N621

### SALIENT CHARACTERISTICS

#### Components

Type-Class

- \*\_\* **Basic Material:** The material shall be grey 4.25 Oz. 65% Polyester/ 35% Cotton, Poplin, Grey, Light Olive.
- \*\_\* **Style:** Maternity shirts with 10" placket front and four button closure.
- \*\_\* **Collar:** The back of the stand shall measure 1 ½ inches. The points shall be 2 7/8 inches in height and top stitched 3/16 inches from edge. The interlinings shall be 100% polyester, 250 denier. The inside collar band fabric shall be polyester satin lined with crease interlining. Permanent collar stays shall be placed parallel to the front collar edge and are fused or sewn inside the collar so that no stitches are made through the bottom leaf. The stand shall fasten with one button.
- \*\_\* **Yoke:** A two piece yoke shall be lined on the inside with self material. The yoke shall measure 2 ¾" at center back and 2 ½" at outside edges. The back of the yoke shall be top stitched 1/16".
- \*\_\* **Button Holes:** The placket shall have three buttons and one buttonhole. The collar stand shall have one button and buttonhole. The long sleeve has one button and buttonhole on the cuff.
- \*\_\* **Pleats:** Front pleat starts at bottom of placket and shall continue to finished bottom of shirt. Dress collar shall have center back pleat.
- \*-A **Sleeves:** Each sleeve shall have one piece continuous pointed placket, 1 ¼" wide both top and bottom, with one button and buttonhole centered in vent opening. Sleeve setting and closing shall be done with an over-edge and safety stitched. Interlined cuffs shall close with two buttons and buttonholes.
- \*-B **Sleeves:** Sleeves shall be one piece, have a 7/8" hem and finish approximately nine inches from the shoulder seam. Sleeve setting and closing shall be done with an over-edge and safety stitch. The entire opening shall be hemmed.

## ATTACHMENT D

\*\_\* **Patch:** The patch shall be sewn securely to the center of the left sleeve with the top edge 1 ½” below the shoulder seam. The patch shall be sewn with inconspicuous stitching using thread matching the emblem background color.

### Sizes and Measurements

Sizes: Small - 4 - 6  
Medium - 8 - 10  
Large - 12- 14  
XL - 16 – 18

## ATTACHMENT D

**Specifications are identical for the following other components:**

**Sample Sizes:** Medium

### GENERAL DESCRIPTION

Maternity shirt both short sleeve and long sleeve with two vertical front pleats for expansion, banded collar, functional epaulets and a sling badge tab.

**TYPE ITEMS:** \* Raincoats

### CLASSIFICATION

\* All Raincoats  
Male  
Female

### SALIENT CHARACTERISTICS

#### Components

Type-Class

- \*\_\* **Basic Material:** Shell: Coated nylor cloth 104 x 86, 70 denier 1 ½" oz. Super urethane coating fabric. Weight with coating 2.7 oz. Per yard (+/- 10% weight in coatings). Forest Green in Color.
- \*\_\* **Lining:** Husky 66 x 52 coated oxford cloth, 200 denier. To have a 1 ½ ounce urethan coating. Fabric weight with coating 4.5 oz. Per square yard.
- Vent:** Nylo-Aire, 100 percent nylon mesh.
- \*\_\* **Style:** Uninsulated raincoat, reversible with cape shoulders, reglan sleeves, and fully vented yoke. Front zipper closure and side pass-through openings with sipper closures.

### DESIGN CHARACTERISTICS

- \*\_\* **Collar:** The collar and collar lining shall be constructed from the outer shell material. The interliner shall be Husky weighing 4.5 ounces per square yard. The collar shall be stitched, with turned and topstitched 3/8 inch from the edge with stitch type 301. The collar point shall finish 4 ¾" long and the collar width at center back shall be 4 3/8 inches wide.
- \*\_\* **Front:** Plain front with centered zipper. The zipper shall be 27 inches long, two-way, reversible, black, #5 molded. The zipper shall start at the neckline and be caught between outer and inner shells and sewn together with stitch type 301. The front shall be 44 inches long from neckline seam to bottom hem at front center for size medium. Length of other size shall be proportional and designed to fit 5-8 inches below the knee. Front vent shall be constructed with vent material extended from neckline down 8 inches and from center fronts around to back and caught in underarm seams. The vent material shall be joined to the front panel. A separate front yoke piece that is part of raglan sleeve shall completely cover and overlap vent material by extending down 1 ¾" below the vent front panel seam.

## ATTACHMENT D

- \*\_\* **Side Openings:** Side openings shall finish 14 inches long starting 5 ½” below the underarm seam. The zipper shall be constructed inseam with tightly closing edges. The zipper shall be a double pull nylon coil, 15 inches long, YKK CFC 57L. The zipper shall be caught between edges of outer and inner shells and the three layers sewn together with stitch type 301.
- \*\_\* **Back:** One piece back panel shall extend to side seam and from bottom hem up to within 8 inches of neckline seam. The top and back panel shall be sewn to the bottom of a piece of vent material. The one piece vent material shall extend from the top of the back panel to the neckline seam and shall be continuous from the right center front across the back to the left center front. The back yoke shall be a continuous of the one piece raglan sleeve and shall be jointed at the center back. A 1 ¾” wide binding shall be attached to the bottom edge of the yoke such that it extends 2 inches below the pack panel/vent material seam. The binding shall extend from underarm seam to underarm seam. A 3 inch piece of ¼” wide elastic shall be caught in the center pack inside edge of the binding and tacked down to the upper edge of the back panel.
- \*\_\* **Sleeves:** The style shall be one piece raglan sleeves. The raglan sleeve shall extend from bottom edge of sleeve to neckline and along the neckline to form the front and back yokes. The sleeve bottoms shall be cuffless with outer and inner shells stitched face to face then topstitched 3/8” from edge after coat is turned out prior to closing at sides. Stitch type shall be 301.
- \*’\* **Lining:** The raincoat shall be completely lined (except for the collar) with the inner shell material and a separate piece of vent material. The lining construction shall be the same as for the other shell construction.
- \*\_\* **Bottom:** The outer and inner shell fabrics shall be stitched face to face then topstitched 3/8” from edge after the coat is turned out prior to closing sides. Stitch type shall be 301.
- \*\_\* **Closing Seams:** The sleeve closing and seams not joined with stitch type 301 shall be joined with safety stitch type 503 or 504.
- \*\_\* **Threads and Stitches:** The thread for all operations shall be high twist spun polyester, core cotton, size 50 polypun. The color shall match the outer fabric and inner fabric respectively when visible on those fabrics. The stitches per inch shall be 8 – 12 for all seams.
- \*\_\* **Hanger Loop:** A nylon braid hanger hoop shall be inserted into neckline seam at center back junction of collar and inner shell material.
- \* **Patch:** The U.S. Army Corps of Engineers shoulder patch shall be sewn securely in the center of the left sleeve with the top edge 9 ½” (raglan sleeves) below the collar seam. The patch shall be sewn with inconspicuous stitching using red thread to match the emblem merrow color.

### Sizes and Measurements:

Regular: Small 36-38; Medium 40-41; Large 44-46; X-Large 48-50, XX-Large 52-54

Long: Medium 40-42; Large 44-46; X-Large 48-50.

## ATTACHMENT D

**Sample Sizes:** Medium

### GENERAL DESCRIPTION

Maternity shirt both short sleeve and long sleeve with two vertical front pleats for expansion, banded collar, functional epaulets and a sling badge tab.

**TYPE ITEMS:** \* Raincoats

### CLASSIFICATION

\* All Raincoats  
Male  
Female

### SALIENT CHARACTERISTICS

#### Components

Type-Class

\*\_\* **Basic Material:** Shell: Coated nylor cloth 104 x 86, 70 denier 1 ½" oz. Super urethane coating fabric. Weight with coating 2.7 oz. Per yard (+/- 10% weight in coatings). Forest Green in Color.

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## ATTACHMENT D

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